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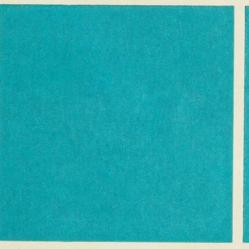


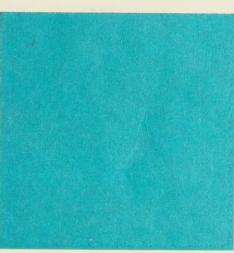
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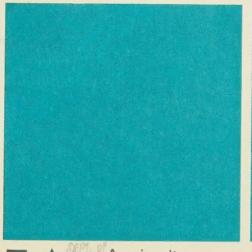
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# THE APPARENT NUTRITIVE VALUE OF FOOD AVAILABLE FOR CONSUMPTION IN CANADA, 1960-75

Linda Robbins Sushma Barewal

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## **ABSTRACT**

In this study, the apparent nutritive value of food available for consumption by the Canadian population between 1960 and 1975 is examined, using time series and cross-sectional data.

Data from Statistics Canada's Apparent Per-Capita Domestic Disappearance were used to provide annual time series information regarding the availability of food at the retail level. While these data do not provide accurate information regarding the consumption of food by a population, they do indicate the amount of food potentially available for consumption. The Household Family Food Expenditure Surveys, on the other hand, provide a useful cross-sectional analysis of food purchased for consumption among income groups, urbanization groups, regions, and other stratifications. For comparison, the nutritive value of food actually consumed by Canadians, as determined from Nutrition Canada data, have also been included.

Results reported in this study are generally consistent with *a priori* expectations and with those of similar studies.

## ABSTRACT

## **FOREWORD**

The objective of this study is to provide discussion of the nutritive value of food available for consumption by the Canadian population during the period 1960-75. Historical trends in the nutritive value of food available for purchase by the Canadian population were based on data obtained as a residual to the calculation of food balance sheets. The nutritive value of food purchased by Canadian families in 1969 and 1974 was also determined using data obtained from the Statistics Canada family food expenditure surveys. The results obtained from these sources were compared with the findings of the Nutrition Canada Survey, which was based on a clinical assessment of the actual nutritional status of Canadians.

The nutrient composition data base compiled for this study is currently being used by Statistics Canada to calculate the nutritive value of foods as published annually in *Apparent Per Capita Consumption in Canada*. These data enable trend analysis of the nutritive value of food available for consumption in Canada for the post-1975 period.

I wish to extend my thanks to the many people who were envolved in the completion of this study.

H. Migie, Director Food Markets Analysis Division Marketing and Economics Branch Agriculture Canada Ottawa, Ontario



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L. Robbins S. Barewal March 1981



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## SUMMARY

Data for this study of the nutritive value of food available for consumption by Canadians during the years 1960 to 1975 were derived from several issues of the Statistics Canada's *Apparent Per Capita Domestic Disappearance of Food* and from the 1969 and 1974 Family Food Expenditure Survey publications. Average nutrient intakes determined from the per-capita domestic disappearance data were compared with those calculated from the Family Food Expenditure Survey and Nutrition Canada Survey data. Some highlights of the study follow.

- Per-capita food energy available for consumption was relatively stable and ranged between 2974 calories (12 443 kilojoules) in 1961 and 3257 calories (13 627 kilojoules) in 1972. The most noticeable changes since 1960 are a decreased proportion of energy from dairy products, cereals, and sugars and syrups, and an increased proportion from meat, and fats and oils.
- —Between 1960 and 1975 the proportion of calories derived from protein remained stable (between 11.6 and 11.9 percent), while that from fat increased slightly (from 39.3 to 41.8 percent), and that from carbohydrate decreased (from 49.7 to 47.1 percent).
- —Per-capita protein availability remained relatively stable, ranging from a low of 87.0 g a day in 1962 to a high of 94.6 g in 1975. Over the 1960–75 period, the trend has been to derive a greater proportion of protein from meat and poultry and a smaller proportion from dairy products and eggs. Vegetable products (pulses and nuts) are also increasing in importance as a source of dietary protein.

- —Per-capita availability of fat has increased steadily from a low of 130.6 g a day in 1961 to a high of 152.2 g in 1972. A shift from animal fats (butter and lard) to vegetable fats (margarine, shortening and shortening oils, salad oils, and cooking oils) can also be noted. Fats and oils, meat, and dairy products continue to be the primary sources of dietary fat.
- —The availability of carbohydrates for consumption on a per-capita basis has been relatively steady with a low of 367.74 g in 1961 and a high of 391.9 g in 1965. Cereals, and sugars and syrups are the primary sources of dietary carbohydrate (about 75 percent of the total). In 1974, however, the consumption of sugar fell dramatically because of high prices.
- —Calcium availability decreased over the period from 1960 to 1975, with peak availability in 1966 at 1008.4 mg. The availability of phosphorus, however, exhibited slight year-to-year variations ranging between 1440.7 mg (1962) and 1514.8 mg (1969). The dairy-product contribution to calcium decreased over the period, from 81.3 to 76.4 percent. While the contributions to total phosphorus availability from dairy products and cereals also decreased, the contribution by meat increased.
- —The trend for total iron availability was slightly upward, with a low of 14.4 mg in 1961 and a high of 15.5 mg in 1972. A large share of the iron available for consumption is due to the enrichment of cereals. Other food groups contributing significantly to iron intake were meat, fruit, and vegetables.

- —Over the 1960-75 period, the availability of vitamin A showed a downward trend with a high of 1160.0 Retinol Equivalents (RE) in 1960 and a low of 1064.6 RE in 1968. Vitamin A contributions by meat and eggs have decreased, while those by dairy products and fats and oils have remained relatively constant. However, one must consider that without the fortification of margarine, there would have been a significant decrease in the vitamin A available for consumption.
- —Cereals are the primary source of thiamine, riboflavin, and niacin, with high contribution levels maintained by the enrichment of breakfast cereals and flour. The availability of riboflavin and niacin for consumption showed an increasing trend for the period, while thiamine availability showed a declining trend. While the contribution by dairy products to total thiamine, riboflavin, and niacin decreased over the period from 1960 to 1975, as did the contribution by cereals to thiamine and niacin, the contribution by meat to riboflavin and niacin increased slightly.
- —The availability of ascorbic acid for consumption decreased from 1960 to 1965, and increased from 1966 to 1975. Primary contributors to ascorbic acid intake are potatoes, tomatoes and tomato products, and citrus fruit.
- —The availability of total folate remained fairly stable from 1960 to 1973, with a small increase in the subsequent two years.
- —The amount of food energy and macronutrients (protein, fat, and carbohydrates) available to Canadians as determined from data in *Apparent Per Capita Domestic Disappearance* is significantly higher than from those in the Nutrition Canada Survey as disappearance data do not allow for nutrient losses incurred

- along the food chain from producer to consumer losses resulting from trimming, processing, food loss due to spoilage, table waste, etc.
- —In 1974, families and unattached individuals in the first income quintile appeared to derive a greater amount of food energy from food consumed at home (2278.4 calories or 9524 kilojoules) than did all families (2156.6 calories or 9023 kilojoules). Families and unattached individuals in the fifth quintile, on the other hand, appeared to derive less food energy from food at home (2108.7 calories or 8823 kilojoules) than all families.
- Families and unattached individuals in both the first and fifth quintiles had apparent protein intakes above the all-families' intake of 69.0 grams (71.4 and 69.5 grams, respectively). Apparent fat intake for families and unattached individuals in the first quintile (107.0 g) was above that of all families (104.9 g) in 1974, while families and unattached individuals in the fifth quintile showed an apparent fat intake equal to that of all families. Families and unattached individuals in the first quintile showed apparent carbohydrate intakes significantly higher than those of all families (262.6 g as compared to 238.7 g). Families and unattached individuals in the fifth quintile had an apparent carbohydrate intake less than that of all families (226.1 g in 1974).

Finally, the results reported in this study are generally consistent with *a priori* expectations and with those reported in similar recent studies. While the results contained in this study may be used in the formulation of policy decisions regarding the nutritional status of Canadians, limitations of the data, as outlined in Section 3, must be noted.

## 1. INTRODUCTION

Nutrients are those components of food that provide the body with energy and are also essential for its repair and growth. A proper mix of foods, therefore, is necessary to provide all the nutrients in proportions necessary for a high performance level of bodily functions.

A number of factors such as changes in food supplies, changes in personal income and the marketing of new foods can bring about changes in the food consumption pattern. Changes in the food consumption pattern, therefore, provide a basis for assessing the trends in the availability of food energy and selected nutrients for consumption by the Canadian population. Such information is valuable for formulating regulations pertaining to the composition of processed foods and for recommending food enrichment levels. An awareness of the trends in nutrient availability from food consumed can also assist nutritionists, health

educators, and social workers in correctly identifying the dietary changes needed to keep Canadians physically fit and capable of high performance.

This study will attempt to provide information concerning the nutritive value of food available for consumption in Canada. For this purpose, data on the availability of food for consumption are taken from two sources: Apparent Per-Capita Domestic Disappearance of Food in Canada, 1960–1975 and data from the 1969 and 1974 family food expenditure surveys carried out by Statistics Canada¹ in fourteen cities. In addition, this report will provide supplementary information concerning the levels of nutrient intake recommended by Health and Welfare Canada in the Canadian Dietary Standard.

<sup>&</sup>lt;sup>1</sup> Statistics Canada, 1969 Family Food Expenditure Survey and Statistics Canada, 1974 Urban Family Food Expenditure Survey.



## 2. RECOMMENDED INTAKES OF NUTRIENTS

Levels of energy and essential nutrients considered adequate, on the basis of scientific data, to support normal functioning in most healthy Canadians are outlined in the *Dietary Standard for Canada*.¹ Because the recommended nutrient levels meet the average nutritional requirements of every age, weight, and sex group, they exceed the minimum needs of most individuals. Dietary recommendations are not intended, however, to cover therapeutic needs. The recommended amounts are generally considered to contain adequate reserves of nutrients that can be stored in the body. Energy recommendations are based on estimated energy requirements of average persons within an age-sex group (Table 2.1).

Nutritional requirements are generally classified for age, weight, sex, and physiological state, as it is recognized that nutrient requirements of the body change during periods of rapid body growth and during pregnancy and lactation. No distinction is made between males and females up to the age of seven, as weight ranges are similar for this age group.

Intakes recommended by the United States and the Food and Agriculture Organization (FAO) (Tables 2.2 and 2.3) have been included to illustrate that recommendations tend to vary slightly from country to country, primarily because population and environmental conditions and the interpretations of adequate levels of nutrient intake also vary. Allowances for each nutrient and several trace elements as given in the *Dietary Standard for Canada*, are summarized below.

## 2.1. Food energy

All energy used by the body is derived from the organic compounds present in foods. In Canada, carbohydrates provide approximately 49 percent of the calories, fat 41 percent, and protein 11 percent. Energy intake from alcohol is not included in these

figures. There is evidence that the average consumption of alcoholic beverages by Canadian adults provides 175 to 200 calories (732 to 837 kJ) per day.<sup>2</sup>

Energy requirement is in proportion to the size of an individual and is commonly expressed in relation to weight, surface, or lean body mass. In addition to size, several other factors affect energy needs, namely: age, physiological state (growth, pregnancy, lactation, etc.), level of activity, and climatic conditions.

Estimates of energy needs from dietary surveys and from experimental studies of energy expenditure present enough similarity to allow reasonably firm recommendations to be made for well-defined groups. However, because of the multiplicity of factors affecting energy requirements, it is difficult to predict accurately the energy needs of individuals.

## 2.2. Protein

Proteins are made up from approximately 20 different amino acids; of these the eight or nine that are not synthesized in the body are considered essential, that is, they must be present in the diet. The quality of dietary protein depends on the relative quantities of the different amino acids and their availability to the body. Because dietary patterns vary from group to group and individual to individual, it is difficult to arrive at an estimate of dietary protein intake applicable to a population. Typically, Canadian diets contain approximately two thirds of protein from animal sources and one third from vegetable sources.

Recommendations for protein intake assume that individuals are in good health, that calorie requirements are met and that intakes of other nutrients are adequate.

## 2.3. Calcium and iron

Calcium absorption has been known to vary widely according to intake and need. The recommended dietary intakes are based on skeletal needs, which are subject to wide variations. Essential functions of soft-tissue calcium can be carried out normally with minimal intakes of calcium.

The Canadian mixed diet provides 5 to 6 mg of iron per 1000 calories. Meat, poultry, and fish supply 25 to 30 percent of the total iron requirement, while cereals provide about a third. The amount of dietary iron required to maintain balance is determined by the age, sex, and physiological state of the individual and by his or her body's efficiency of absorption. It also depends on the level of iron stores considered desirable at maturity.

## 2.4. Niacin and vitamin A

Recommended intakes of niacin are sufficient to allow for differences in the amounts of preformed niacin, the contribution by tryptophan to preformed niacin, and for the availability of niacin from various diets.

Vitamin A is derived from animal products such as liver, kidney, milk, and eggs, and from fruits and vegetables. When the amount of vitamin A in the food exceeds immediate needs, much of the surplus is retained in the liver and can be used later if the dietary supply is curtailed. Consequently, well-fed individuals can probably tolerate several months of depletion. As vitamin A is a fat-soluble vitamin, caution and restraint are necessary in the use of concentrates and other highly potent preparations, as they may prove toxic. Foods, however, have rarely provided harmful quantities of vitamin A.

### 2.5. Ascorbic acid

Estimates of human requirements for vitamin C have been made by determining the amount of the vitamin necessary to prevent the deficiency disease scurvy, the amount of vitamin C metabolized per day and the amount of vitamin C necessary to maintain tissue levels of the vitamin. Variations in requirements among individuals are due, in part, to differences in

body weight. There is no evidence to indicate that age changes the vitamin C requirement of adults.

It should be emphasized that the recommended intakes of vitamin C are considered sufficient to cover the daily needs of healthy individuals. Considerable publicity has attended assertions that intakes of vitamin C far in excess of physiological requirements are of value in counteracting diseases such as the common cold. However, evidence for these assertions is equivocal, and it is possible that continued excessive use of vitamin C is harmful.

It should be emphasized that the recommended intakes of nutrients should be constituted by eating a variety of foods because unknown nutrients, essential for the maintenance of health, may be present. Moreover, knowledge about the interactions between nutrients derived from different sources is incomplete. Recommended intakes do not have to be met on a daily basis as long as weekly average intakes correspond to the recommended levels.

Based on the data contained in the *Dietary* Standard for Canada, a general food plan, namely Canada's Food Guide (Appendix N) has been constructed, in which the quantitive expressions of nutrients (in terms of mg, g, etc.) have been converted into food groups for use by the layman. To be effective, food guides should describe a pattern of food use which will ensure an adequate intake of nutrients (as judged against national recommendations such as those in the Canadian Dietary Standard) with maximum conformity to existing patterns of food use and with maximum flexibility in the choice of particular foods (McClinton, Milne, and Beaton [1971]). Therefore, it is important to note that the food plan has been adapted to reflect the common dietary practices of the Canadian population.

One must conclude, therefore, that the *Dietary* Standard is a very useful tool in relating nutrient needs to food consumption and evaluating the dietary practices of Canadians.

<sup>&</sup>lt;sup>1</sup>Health and Welfare Canada, *Dietary Standard for Canada*.

<sup>2</sup>The Alcoholism Commission of Saskatchewan, Research Division, *Statistics of Alcohol Use and Alcoholism in Canada*, 1949–1971.

RECOMMENDED DAILY NUTRIENT INTAKE FOR CANADA — REVISED 1975 TABLE 2.1.

Fat-Soluble

								Wat	ater-Soluble Vi	itamins		Vitamins		Minerals	
Age or Category	Sex	Weight	Weight Height	Energy <sup>a</sup>		Protein	Thiamine	Niacin	Riboflavin	Folate	Vitamin C	Vitamin A <sup>h</sup>	Calcium	Phosphorus	Iron
		kg	cm	kcal	K	50	mg	NE.	mg	щ	mg	RE	gm	mg	mg
0_ 6 mo	Roth	9		ko × 117	ko × 490	$k_{\text{S}} \times 2.2(2.0)^{\text{d}}$		5	0.4	40	208	400	.500i	250 <sup>i</sup>	7
7-11 mo	Roth	0		$k_{\rm p} \times 108$	$k_{\rm p} \times 452$	kg × 1.4		9	9.0	09	20	400	200	400	7
1-3	Both	3	06	1 400	5 858	22	0.7	6	0.8	100	20	400	200	200	00
4 6	Roth	19	110	1 800	7 531	27	6.0	12	1.1	100	20	500	200	200	6
7- 9	Σ	27	129	2.200	9 205	33		14	1.3	100	30	700	700	700	10
	П	27	128		8 368	33	1.0	13	1.2	100	30	700	700	700	10
10-12	. ≥	36	144			14	1.2	17	1.5	100	30	800	006	006	
	I	3 00	145		9 623	40	-	15	1.4	100	30	800	1 000	1000	11
13-15	. ≥	51	162		11 715	52	1.4	19	1.7	200	30	1 000	1 200	1200	13
	Ţ	49	159		9 205	43	1.1	15	1.4	200	30	800	800	800	14
16-18	. ≥	64	172		13 389	54	1.6	21	2.0	200	30	1 000	1 000	1000	14
	T	54	161		8 786	43	Account	14	1.3	200	30	800	700	700	14
19-35	. ≥	70	176	_		56	1.5	20	1.8	200	30	1 000	800	800	10
	[ [	99	161		8 786	41	1.1	14	1.3	200	30	800	700	700	14
36-50	Σ	70	176		11 297	56	1.4	18	1.7	200	30	1 000	800	800	10
	[T	99	191		7 950	41	1.0	13	1.2	200	30	800	700	700	14
+ 15	Σ	70	176	2 300 <sup>b</sup>	9 623	56	1.4	8	1.7	200	30	1 000	800	800	10
·	[_	99	161	1 800 <sup>b</sup>	7 531	41	1.0	13	1.2	200	30	800	700	700	6
Pregnancy				$+300^{\circ}$	+1 255	+20	+0.2	+ 2	+0.3	+50	+20	+100	+500	+200	+
Lactation				+500	+2 092	+24	+0.4	+ 7	9.0+	+50	+30	+400	+500	+500	+17

<sup>a</sup> Recommendations assume characteristic activity pattern for each group.

<sup>b</sup> Recommended energy intake for age 66+ years reduced to 2000 kcal (8368 kJ) for men and 1500 kcal (6.3 M H for women

1500 kcal (6.3 MJ) for women. Increased energy intake recommended during 2nd and 3rd trimesters. An increase of 100 kcal

(418.4 kJ) per day is recommended during the 1st trimester.

<sup>d</sup> Recommended protein intake of 2.2 g/kg body weight for infants aged 0–2 months and 2.0 g/kg body weight for those aged 3–5 months. Protein recommendation for infants aged 0–11 months assumes consumption of breast milk or protein of equivalent quality.

e NE (niacin equivalent) is equal to 1 mg of niacin or 60 mg of tryptophan.

Recommendations given in terms of free folate.

© Considerably higher levels may be prudent for infants during the first week of life to guard against neonatal tyrosinemia.

 $^{\rm h}$  IRE (retinol equivalent) corresponds to a biological activity in humans equal to 1  $\mu$  retinol (3.33 IU) or 6  $\mu$  B-caroten (10 IU).

<sup>1</sup> The intake of breast-fed infants may be smaller than the recommendation but is considered to be adequate.

A recommended total intake of 15 mg daily during pregnancy and lactation assumes the

presence of adequate stores of iron. If stores are suspected of being inadequate, additional iron as a supplement is recommended.

Source: Health and Welfare Canada, Canadian Dietary: Standard (Ottawa: Supply and Services

Canada, 1975).

RECOMMENDED DAILY DIETARY ALLOWANCES FOR THE UNITED STATES, REVISED 1980 TABLE 2.2.

								Fat-Soluble Vitamins		Water S	Water Soluble Vitamins	amins		_	Minerals	
Category	Age	We	Weight	Height	ght	Energy	Protein	Vitamin A Activity	Ascorbic Acid	Folacin	Niacin	Ribo- flavin	Thiamine	Calcium	Phos- phorus	Iron
	years	kg	1b	cm	in	kcal <sup>b</sup>	20	REe	mg	μ	NE®	mg	mg	mg	mg	mg
Infants	0.0-0.5	9	13	09	24	$kg^c \times 115$	$kg \times 2.2$	420	35	30	9	0.4	0.3	360	240	10
	0.5-1.0	6	20	71	28	$kg^{c} \times 105$	$k_{\rm g} \times 2.0$	400	35	45	00	9.0	0.5	540	360	15
Children	1-3	13	29	06	35	1300	23	400	45	100	6	8.0	0.7	800	800	15
	4-6	20	44	112	44	1700	30	200	45	200	11	1.0	6.0	800	800	10
	7-10	28	62	132	52	2400	34	700	45	300	16	1.4	1.2	800	800	10
Males	11-14	45	66	157	62	2700	45	1000	50	400	18	9.1	1.4	1200	1200	18
	15-18	99	145	176	69	2800	56	1000	09	400	18	1.7	1.4	1200	1200	18
	19-22	70	154	177	70	2900	56	1000	09	400	19	1.7	1.5	800	800	10
	23-50	70	154	178	70	2700	56	1000	09	400	18	9.1	1.4	800	800	10
	51 +	70	154	178	70	2400 <sup>d</sup>	56	1000	09	400	91	1.4	1.2	800	800	10
Females	11-14	46	101	157	62	2200	46	800	50	400	15	1.3	1.1	1200	1200	18
	15-18	55	120	163	64	2100	46	800	09	400	14	1.3	1.1	1200	1200	18
	19-22	55	120	163	64	2100	44	800	09	400	14	1.3	1.1	800	800	18
	23-50	55	120	163	64	2000	44	800	09	400	13	1.2	1.0	800	800	18
	51 +	55	120	163	64	1800 <sup>d</sup>	44	800	09	400	13	1.2	1.0	800	800	10
Pregnant						+300	+30	+200	+20	+400	+ 2	+0.3	+0.4	+400	+400	e e
Lactating						+500	+20	+400	+40	+100	+ 5	+0.5	+0.5	+400	+400	д

\* The allowances are intended to provide for individual variations among most normal persons living in the United States under usual environmental stresses. Diets should be based on a variety of common foods in order to provide nutrients not listed here for which human requirements have been less well defined.

<sup>b</sup> Kilojoules (kJ) =  $4.2 \times \text{kcal}$ .

c Body weight.

<sup>d</sup> Requirements for energy at 51 to 75 years. Males over 76 years should decrease energy intake to 2050 keal and females 76+ years to 1600 keal.

 $^c$  Retinol equivalents: 1 retinol equivalent is equal to 1  $\mu$  retinol or 6  $\mu$  B-carotene.  $^f$  The folacin allowances refer to dietary sources as determined by Lactobacillus casei assay.

8 One niacin equivalent (NE) is equal to 1 mg of niacin or 60 mg of dietary tryptophan.

h This increased requirement cannot be met by ordinary diets; therefore, the use of supplemental iron is recommended.

Source: Food and Nutrition Board, Recommended Dietary Allowances (Washington, D.C.: U.S. Government Printing Office, 1980).

RECOMMENDED INTAKES OF NUTRIENTS — FAO/WHO, 1974 TABLE 2.3.

Age in Years or Category	Body Weight	Enel	Energy <sup>a</sup>	Protein <sup>ab</sup>	Vitamin Acd	Thiamine	Kibo- flavin <sup>c</sup>	Niacin°	rollc	Ascorbic acide	Calciumf	Irones
	kg	kcal	MJ	6.0	щ	mg	mg	mg	η	mg	50	mg
Children												
Under	7.3	820	3.4	14	300	0.3	0.5	5.4	09	20	0.5-0.6	5-10
1 3	13.4	1360	5.7	16	250	0.5	8.0	0.6	100	20	0.4-0.5	5-10
4-6	20.2	1830	7.6	20	300	0.7		12.1	100	20	0.4-0.5	5-10
7-9	28.1	2190	9.2	25	400	6.0	1.3	14.5	100	20	0.4-0.5	2-10
Male adolescents										(	(	
10-12	36.9	2600	10.9	30	575	1.0	1.6	17.2	100	20	0.6-0.7	5-10
13-15	51.3	2900	12.1	37	725	1.2	1.7	19.1	200	30	0.6-0.7	9-18
16-19	62.9	3070	12.8	38	750	1.2	1.8	20.3	200	30	0.5-0.6	5- 9
Female adolescents									•	(	(	,
10-12	38.0	2350	8.6	29	575	6.0	1.4	15.5	100	20	0.6-0./	01-0
13-15	49.9	2490	10.4	31	725	1.0	1.5	16.4	200	30	0.6-0.7	12-24
16-19	54.4	2310	6.7	30	750	6.0	1.4	15.2	200	30	0.5-0.6	14-28
Adult man										(	(	
(moderately active)	65.0	3000	12.6	37	750	1.2	<u>∞</u> :	19.8	200	30	0.4-0.5	5- 9
Adult woman								,	6	ć		00
(moderately active)	55.0	2200	9.5	29	750	6.0	1.3	14.5	200	30	0.4-0.5	14-28
Pregnancy				,	1			6	0	C	-	۰
(later half)		+350	+1.5	38	750	+0.1	+0.2	+2.3	400	30	1.0-1.2	:
Lactation									(	ć	•	.2
(first 6 months)		+550	+2.3	46	1200	+0.2	+0.4	+3.7	300	30	1.0-1.2	

Energy and Protein Requirements. Report of a Joint FAO/WHO Expert Group (Rome: FAO,

b As egg or milk protein.

Requirements of Vitamin A, Thiamine, Riboflavin and Niacin. Report of a Joint FAO/WHO Export Group (Rome: FAO, 1965).
 As retinol.
 Requirements of Ascorbic Acid, Vitamin D, Vitamin B<sub>12</sub>, Folate and Iron. Report of a Joint

FAO/WHO Expert Group (Rome: FAO, 1970).

(Calcium Requirements. Report of a FAO/WHO Expert Group (Rome: FAO, 1961).

Propred to the lower value applies when over 25 percent of calories in the diet come from animal foods, and the higher value when animal foods represent less than 10 percent of calories.

Propred whose iron intake throughout life has been at the level recommended in this table, the daily intake of iron during pregnancy and lactation should be the same as that recommended for non-pregnant, non-lactating women of childbearing age. For women whose iron status is not satisfactory at the beginning of pregnancy, the requirement is increased, and in the extreme situation of women with no iron stores, the requirement can probably not be met without supplementation.

Source: Food and Agriculture Organization of the United Nations, Handbook on Human Nutritional Requirements (Rome: FAO, 1974).



# 3. SOURCES AND LIMITATIONS OF DATA USED IN THE STUDY

The objectives of this section are twofold: first, to provide a brief description of the data sources, and the procedure used to calculate the nutritive value of food; and second, to discuss the assumptions made regarding the food items included in the study.

## 3.1. Data sources and limitations

The sources of data used for the present study are Apparent Per Capita Domestic Disappearance of Food in Canada, for 1960 to 1975, the 1969 Family Food Expenditure Survey, and the 1974 Urban Family Food Expenditure Survey.

Apparent Per Capita Domestic Disappearance data provide annual time series information regarding the availability of food at the retail level after consideration of production, imports and exports, beginning and ending stocks, seed requirements, manufacturing inputs, livestock feed, and waste. No allowance is made for food losses or wastage from commercially grown food occurring in stores and homes, nor for foods grown at home. Therefore, while food disappearance data do not provide accurate information regarding the consumption of food by a population, they do indicate the amount of food potentially available for consumption.

Food disappearance data are unavailable for some commercially processed foods. This is a serious omission because in the past 10 to 15 years an increasing number of processed and manufactured products (Gullett 1974) such as cake mixes, ready-to-serve meals and fruit-drink crystals have been available on the Canadian market. Watts *et al.* [1977] arrived at estimates of food consumption trends for some of these products by comparing percentage increases in Statistics Canada shipment and tonnage figures to percentage increases in the

population for a specific period of time. However, there are limitations to this type of data comparison, namely, the exclusion of imports and exports, that the reporting of shipments is restricted to those of the larger establishments, that imports and exports are excluded, and that figures in particular years are not reported because the sample of manufacturers is too small. Also, methods of detailed reporting may vary from period to period; hence there are some gaps and inconsistencies in the detail of data for some product categories. Despite these limitations, the nature of the changes that have occurred in recent years in processed and manufactured products can be observed.

Statistical data concerning apparent food disappearance do not distinguish between food consumed at home and that consumed away from home. While statistics exist on total restaurant receipts and on the number of franchises associated with food-serving outlets, they do not indicate which foods were sold. Some indications are available concerning vending-machine sales, such as are expansion in the categories of hot foods and soups, hot and cold beverages including milk, and confectionery items.

While Apparent Per-Capita Domestic Disappearance data facilitate an examination of trends in the average availability of food for consumption by Canadians over time, Food Expenditure Survey data enable cross-sectional analyses of household food purchasing patterns among income groups, urbanization groups, regions, and other stratifications. This study uses information on a sample of families and unattached individuals living in private households in 14 major cities:

St. John's Halifax, Saint John, Montreal, Quebec City, Ottawa, Toronto, Thunder Bay, Winnipeg, Regina, Calgary, Edmonton, and Vancouver.

The 1974 Urban Food Expenditure Survey consisted of two samples (main and special). The main part of the sample (5245 families) was randomly drawn from all households in the cities listed above. The special part of the sample (746 families) was drawn from households at the lower end of the income distribution. Respondents were asked to keep diaries of food purchases for two consecutive weeks. Only diaries that provided complete responses for a period of at least one week were used in the analyses. The 1969 Family Food, Expenditure Survey was national in scope and included both rural and urban families. From the 1969 survey data a sample was extracted which was representative of the population in the 1974 survey. In this way, data were made available which allowed a comparison between urban families in the same income quintile groups, in the two time periods.

Since it was not feasible to calculate the average nutrient content of meals eaten away from home and of some foods purchased for home consumption, they were excluded from the study. The excluded categories were certain frozen foods (other desserts and specialties, fish dinners, Chinese and Italian foods, and other foods) and prepared and partially prepared dishes (meat and poultry dinners, Chinese dinners, food carried out of restaurants and stores, and other foods).

# **3.1.1. Disappearance versus survey data** Differences between food disappearance and survey data can be summarized in a tabular format as follows:

Item Compared	Food Disappearance Data	Family Food Expenditure Survey Data
Level of Examination	Time series	Cross-sectional
Food Used by Institutions	Includes food used by institutions — data obtained from supply- disposition tables	Excludes food used by institutions — data obtained from surveys of private household purchases
Food Eaten Away from Home	Includes food eaten away from home — as separate figures are not available	Excludes food eaten away from home — as representative nutrient values are not available
Processed Foods	Includes foods in the unprocessed form for bakery products and meats (carcass basis)	Includes foods in the processed state as purchased (i.e., bread, retail cuts of meat, etc.)

## 3.2. Procedure

The method used to calculate the apparent nutritive value of food available for consumption in Canada is similar to that used in the United States (USDA 1965). Kilograms per capita of each food available for consumption are multiplied by the food's nutritive value "as purchased." Current estimates of domestic food disappearance include data on approximately 150 major foods. These foods were assumed to be in good condition when purchased, with an average amount of refuse.

With few exceptions the food composition values used in the calculations were those in the Nutrition Canada Survey Food Nutrient Conversion File produced by Health and Welfare Canada. The values which are year average nutrients in U.S. foods, are based on those in USDA's Composition of Foods... Raw, Processed, Prepared. In addition, total folate has been included, as well as a section on Canadian foods reflecting Canadian enrichment and fortification levels (See 3.3, "Assumptions.")
Nutrient values used for dairy products were those in USDA's Composition of Foods, Dairy and Egg Products.

Food values obtained from the food-nutrient conversion file are in terms of nutrients per 100 g, edible portion. Therefore, it was necessary to convert the food values into nutrients per 100 g as purchased¹ before applying them to disappearance data and survey data. The factors used for the conversion do not account for nutrient loss as a result of the cooking, storage, and wastage of food, as the amount varies greatly from food to food and from family to family, and because some nutrients are affected more than others in the cooking process.

## 3.3. Assumptions

### 3.3.1. Meat

Meat supplies are estimated in terms of carcass weight in the food balance sheets. Statistics Canada converts the warm dressed carcass weight to cold dressed carcass weight by subtracting the shrinkage and weight of kidney and tongue meat and adding an estimate of the weight of head meat.<sup>2</sup>

### 3.3.1.1. Beef

The warm dressed weight, excluding kidney and kidney fat, as reported in Agriculture Canada's *Annual Livestock Market Review*, is reduced by 3 percent for shrinkage. Then 2.0412 kg per carcass are added to account for head meat recovery. The

result is the cold dressed carcass weight.<sup>3</sup> Except for all  $A_4$  carcasses and some  $A_3$  carcasses, which are trimmed in the plants before shipping, it is assumed that more fat is trimmed until the carcass reaches the retail chain store.

Kidney and kidney fat are not included in the Canadian disappearance data for beef. The U.S. nutrient values used are for carcasses including kidney and kidney fat, nutrient values for carcasses without kidney and kidney fat not being available. Hence, adjustments in the nutrient values for beef were necessary to exclude kidney and kidney fat (Table 3.1).

It was assumed that a 283.5-kg carcass would contain an average of 9.07 kg of kidney fat (suet) or 3.2 percent of the total carcass weight, and that it would also contain an average of 0.57 kg of kidney meat (0.2 percent of the total).<sup>4</sup> The percentages were applied to the nutrient values for suet (2228)<sup>5</sup> and kidney meat (1159) and removed from the nutrient values for beef. A subsequent factor of 0.84 is applied to the nutrient values to account for refuse.<sup>6</sup>

In September, 1972, a new beef grading system came into effect. Prior to this grading change, Canada Choice and Canada Good beef, which constituted more than 50 percent of the beef carcasses slaughtered, were equivalent to U.S. Choice and U.S. Good beef.<sup>7</sup> Therefore, the nutrient values used, for the period from 1960 to 1972, are an average of Choice (209) and Good (210) carcasses, as purchased. After 1972, A<sub>1</sub> and A<sub>2</sub> slaughter averaged approximately 70 percent of the total slaughter. A<sub>1</sub> and A<sub>2</sub> carcasses are approximately equivalent to U.S. Grade 2 Choice and Good Grade beef.<sup>8</sup> Therefore, the nutrient values used for the years from 1973 to 1975 are the same as those for U.S. Good Grade beef (210).

Between 1960 and 1968, imports accounted for 2.2 percent of the total beef supply in Canada. Since 1969, imports have increased significantly, bringing the average for the 1960-75 period to 4.8 percent. A portion of the imports, primarily those from Australia and New Zealand, is in the form of boneless beef. Statistics Canada nevertheless assumes that all imported beef is equivalent to Canadian carcass. Since imported boneless beef has constituted, on the average, only about 4.0 percent of the total Canadian beef supply since the mid-1960s, this assumption is not expected to alter the results significantly.

### 3.3.1.2. Pork

Canadian pork carcasses are dressed with the head on and kidney and leaf lard retained. From the warm dressed carcass weight 3 percent were subtracted for shrinkage, and a further 17 percent to account for larding fat (leaf lard and backfat). Then 680.4 g per carcass were deducted to account for the kidney and tongue left in the warm dressed carcass. The remainder represents the cold trimmed carcass weight.<sup>9</sup>

Larding fats, while excluded from the Canadian cold trimmed carcass weight, are included in the USDA nutrient values for pork. Therefore, a downward adjustment in the Canadian nutrient values per 100 g of pork must be made (Table 3.2). The nutrient values in 17 percent of 100 g backfat (medium-fat class 1672b) were subtracted from the nutrient values for 100 g of pork (medium-fat class 1662). The resulting values are the nutrients in 83 percent of 100 g of pork excluding larding fat. The nutrients were then calculated on a 100-g basis. A subsequent factor of 0.75 was applied to the nutrient values to allow for skin, bones, etc. 10 This resulted in a figure of 28.4 percent fat in pork.

The nutrient values of pork exclude some of the head meat, as U.S. pork carcasses are dressed with head off but jowl on, whereas Canadian pork carcasses are dressed with head on. The head, excluding the tongue, accounts for 5.3 percent of the cold trimmed carcass weight, or approximately 3.36 kg. Of this, refuse includes skin, fat, and bone. Therefore, very little head meat is actually available for consumption (453.6 g of scalp, 317.5 g of head meat and 90.7 g of brains per carcass). As a result, no alteration was made in the nutrient values to include head meat. However, the refuse factor for pork was increased by 4.0 percent to exclude the non-edible portion of the head from the nutrient values.

In December, 1968, the grading system for Canadian pork was changed. Despite this change, the majority of Canadian pork carcasses, for the period from 1960 to 1975, are approximately equivalent to U.S. medium-fat pork carcasses.<sup>11</sup>

## 3.3.1.3 Lamb and mutton

The warm dressed carcass weight was reduced by 3 percent for shrinkage and 90.7 g per carcass for the kidney. To the remainder, 181.4 g per carcass were added for head meat recovery. The result is the cold dressed carcass weight.<sup>12</sup>

Although separate figures are not available for lamb and mutton, consumption is mostly of lamb.

Nutritive values are not available on a carcass basis in the Nutrition Canada *Food-Nutrient Conversion File*. The values used, therefore, were for fresh lamb carcasses (114) raw, as purchased, in the *Table of Food Values Recommended for Use in Canada*, published by Health and Welfare Canada. A factor of 0.78 was applied to the nutrient values to allow for refuse.<sup>13</sup>

### 3.3.1.4. Veal

The warm dressed carcass weight was reduced by 15 percent for shrinkage and skin removal, and 226.8 g per carcass to exclude the kidney weighted in the carcass. To the remainder, 362.9 g per carcass were added to account for head meat recovery. The resulting figure represents the cold dressed carcass weight.<sup>14</sup>

The majority of Canadian veal carcasses fall into the U.S. medium-fat to thin class. <sup>15</sup> Therefore, an average of the nutrient values for medium-fat (2366) and thin carcasses (2367) excluding kidney was used. A factor of 0.79 was applied to medium-fat veal nutrient values and 0.77 was applied to thin veal nutrient values to allow for refuse. <sup>16</sup>

#### 3.3.1.5. Edible offal

The total of all offal was divided among the various kinds of beef and pork organ meats consumed by humans, according to the approximate weight and edible yield for each, as provided by Canada Packers and Schneiders (Table 3.3).<sup>17</sup>

In Canada, other skeletal meats (tails, cheeks and head meat, back steaks, etc.) are not included in the edible offal, but are part of the total carcass weight. Representative nutrient values were assigned to each component: beef liver — 1266, pork liver — 1273, beef heart — 1110, pork heart — 1118, beef kidney — 1159, pork kidney — 1162, beef tongue — 2301, pork tongue — 2307, beef sweetbreads — 2240, beef tripe — 2316, and all brains — 438. A factor of 0.76 was applied to beef- and pork-tongue nutritive values to account for refuse. The nutrient values for each offal type were then weighted by their approximate share in offal consumption to arrive at a composite set of nutrient values for edible offal (Table 3.4).

**3.3.2.** Poultry

Estimates of per-capita domestic disappearance of fowl and chicken for before 1963 are available as a combined figure. To obtain separate estimates for these kinds of poultry for the period 1960–63, it is assumed that 18 percent of the domestic disappearance are fowl and 82 percent chicken. The estimates of per-capita domestic disappearance for

fowl are 1.696 kg in 1960, 1.878 kg in 1961, and 1.864 kg in 1962, and for chicken, 7.729 kg in 1960, 8.555 kg in 1961, and 8.500 kg in 1962. A factor of 0.70 was applied to fowl and chicken nutritive values to allow for bones.

3.3.3. Fishery products

It was assumed that Canadians consume fresh fish in the following proportions: lean fish 0.65, fatty fish 0.27, and shellfish 0.08.<sup>19</sup> The average nutrient values for all fresh fish consumed were calculated by applying the above weights to their respective nutrient values (cod — 794b, salmon — 1948 and shrimp — 2042b). Nutrient values for canned fish were based on the weighted averages<sup>20</sup> for canned tuna (2324), salmon (1955), shellfish (2045A), and sardines (1976). The nutrient values used for cured fish were those of dehydrated and salted cod (797).

3.3.4. Dairy products (excluding butter)

Per-capita availability for consumption estimates of dairy products were made for food components. Nutrients in ice cream are for the milk in ice cream only, as the sugar and butter-fat content of ice cream are included in the sugar and butter disappearance values. It is assumed that only evaporated milk was fortified during the 1960–75 period. However, effective March 1, 1976, additional milk products (skim milk, partly skimmed milk, evaporated skim milk, evaporated partly skimmed milk, powdered whole milk, and powdered skim milk) are required to be fortified. It is also assumed that over the period considered, milk had a constant fat content: 3.3 percent fat for homogenized whole milk and 2.0 percent fat for partly skimmed milk.

## 3.3.5. Bakery and cereal products (including flour)

It is assumed that except for flour and prepared breakfast cereals, all bakery products (fresh, frozen, and in the form of mixes) and cereal products are unenriched. It is possible that some proportion of flour and breakfast foods are enriched above the minimum levels promulgated by the Canadian Food and Drug Regulations. Since the extent of enrichment cannot be determined, minimum levels of added iron, thiamine, riboflavin, and niacin were assumed.<sup>21</sup>

Composite nutritive values were used for most individual foods in the cereal group. The nutritive values for breakfast foods are a weighted average based on production data for wheat-, corn-, rice-, and oat-based cereals. It has therefore been assumed that 35 percent of breakfast cereals are wheat-based,

36 percent corn-based, 22 percent rice-based, and 7 percent oat-based. Representative cereals within each of the wheat, corn, and oat types were chosen, and the above weights applied to their nutritive values.

The increase in disappearance figures for breakfast foods in 1974 and 1975 is mainly due to the addition of infant cereals. As separate figures for infant cereals are available, they were subtracted from the disappearance figures for breakfast foods for 1974 and 1975 in order to obtain a consistent series.

An estimate of the percentage of total wheat flour enriched each year since 1960 is not available. According to U.S. survey data, 60 percent of wheat flour were assumed to be enriched for the period 1954–64. Health and Welfare Canada was advised by millers that by 1975 approximately 85 percent of Canadian flour was enriched.<sup>22</sup> For the calculation of nutrients, it was assumed that 70 percent<sup>23</sup> of the total wheat flour in the entire 1960–75 period were enriched.

3.3.6. Fruit and vegetables

All canned fruits considered in the study were assumed to be packed in heavy syrup. Apple and grape juice were assumed to be fortified with vitamin C. On the average, it is assumed that 57 percent of fresh cherries are sweet and 43 percent sour. All fresh vegetables were assumed to be partially trimmed.

Disappearance data for processed fruits are expressed in retail weight rather than fresh equivalent, with the exception of tomatoes otherwise used, for which the fresh equivalent weight was taken, and the nutritive values used were for fresh tomatoes. It is assumed that there is a 50-percent split between tomato paste and tomato pulp or purée. Of the dried apples, 75 percent are dried and 25 percent dehydrated.

It is assumed that all canned grapefruit juice and blended orange and grapefruit juice are unsweetened, while 85 percent of canned orange juice are unsweetened and 15 percent sweetened.

In the few cases where disappearance data were not available for a particular year or years, figures were extrapolated from the data of the previous three years.

Because of the changing composition of unspecified fresh and frozen fruits and vegetables, no set of nutrient values was considered representative. These were, therefore, excluded from the calculation. As the domestic disappearance of these foods was very small, their exclusion is not expected to significantly affect the estimates of nutrient value intake from fruits and vegetables.

### 3.3.7. Fats and oils

In computing nutrients contributed by the fat and oil group, it is assumed that margarine is enriched with vitamin A. Enrichment is the process of adding a nutrient which is not normally present in a food or which is present in insignificant amounts (for example, vitamin A in margarine) or of upgrading a nutrient already present in a product to a general or average level for a particular food (for example, B-vitamins and iron in cereal products). The enrichment level assumed was 1058.0 RE (3522.0 International Units) per 100 g of margarine.<sup>24</sup>

### 3.3.8. Sugar and other sweeteners

Disappearance data for sugars and other sweeteners do not include amounts used in manufacturing canned and frozen fruit. Nutrients in the sweeteners used in these processed products are included in their respective food groups.

International trade data indicate that for the period from 1960 to 1973 the "other sugar and syrup" group consisted mainly of corn syrup (glucose) and for 1974 and 1975 of Barbados molasses.

### 3.3.9. Pulses and nuts

Nutrient specifications for tree nuts were derived as a weighted average of all shelled and unshelled nuts. The weights were based on import data for the period from 1960 to 1976.

### 3.3.10. Non-alcoholic beverages

Disappearance data for cocoa beans were converted to a cocoa-powder equivalent by using a factor of 0.48, and nutritive values available for dry cocoa powder (783) were used.

Disappearance data for coffee were converted from green-bean equivalent to those for instant coffee by using a factor of 0.28.25 The nutrient values represent only the soluble nutrients extracted in preparation. It was not feasible to estimate the small quantities of nutrients that may be furnished by tea.

Alcoholic beverages have been excluded from the study as consistent data series are not available for the period studied.

<sup>&</sup>lt;sup>1</sup> Values of edible portion per 100 g were multiplied by the percentage edible per 100 g to give nutrients per 100 g "as purchased"

<sup>&</sup>lt;sup>2</sup> Unpublished paper, "Methods and Concepts Used in Arriving at Per-Capita Disappearance of Meat," by B.E. Rosien of the Agriculture Division of Statistics Canada.

<sup>3</sup> Rosien, B.E., "Methods and Concepts," op. cit.

<sup>&</sup>lt;sup>4</sup> Canadian Cattlemen's Association of Canada.

- <sup>5</sup> Figures in parentheses are the item numbers in the *Nutrition Canada Survey Food Nutrient Conversion File*.
- <sup>6</sup> USDA, Composition of Foods Handbook No. 8, p. 72.
- <sup>7</sup> Based on consultation with commodity specialists.
- <sup>8</sup> Based on consultation with commodity specialists and the Canadian Cattlemen's Association of Canada.
- <sup>9</sup> B.E. Rosien, "Methods and Concepts," op. cit.
- 10USDA, Handbook No. 8, p. 103.
- <sup>11</sup>Based on consultation with commodity specialists.
- <sup>12</sup>B.E. Rosien, "Methods and Concepts," op. cit.
- <sup>13</sup>Health and Welfare Canada. *Table of Food Values Recommended For Use in Canada*, p. 132.
- <sup>14</sup>B.E. Rosien, "Methods and Concepts," op. cit.
- <sup>15</sup>Based on consultation with commodity specialists.
- 16USDA, Handbook No. 8, p. 118.
- <sup>17</sup>See also the Food Prices Review Board's, *Beef Pricing* (June 1974) and *Pork Pricing* (August 1974).
- <sup>18</sup>Based on the average percentage contribution by fowl and by

- chicken to the combined domestic disappearance figure for fowl and chicken for the years 1963-65.
- $^{19}\mbox{Based}$  on data provided by Environment Canada, Fisheries Branch.
- <sup>20</sup>Weights based on U.S. consumption figures (1964 consumption, 0.95 kg of canned tuna, 0.32 kg of salmon, 0.23 kg of shellfish, and and 0.14 kg of sardines).
- <sup>21</sup>Minimum enrichment levels assumed per 28 g of flour are

iron 0.80 mg riboflavin 0.07 mg thiamine 0.12 mg niacin 0.99 mg

Minimum enrichment levels assumed per 28 g of prepared breakfast cereal are

iron 4.0 mg riboflavin 1.0 mg thiamine 0.6 mg niacin 6.0 mg

- <sup>22</sup>Millers' Association.
- <sup>23</sup>Based on consultation with Health and Welfare Canada officials.
- <sup>24</sup>Health and Welfare Canada, *Nutrient Value of Some Common Foods*.
- <sup>25</sup>Based on consultation with various coffee manufacturers.

### TABLE 3.1. METHODOLOGY FOR EXCLUDING THE NUTRITIVE VALUE OF KIDNEY AND KIDNEY FAT FROM BEEF

Since disappearance data exclude kidney and kidney fat and nutrient values include kidney and kidney fat, in order to exclude kidney and kidney fat from nutrient values assume that 1960-72 Canada Choice and Good beef = U.S. Choice and Good beef and that 1973-75 Canada  $A_1$  and  $A_2$  beef = U.S. Good beef.

Assume that all kidney fat removed is suet.

Removal of kidney fat

	Nutritive Value of 100 g of Kidney Fat (2228)	Nutritive Value of 3.2 g of Kidney Fat	
food energy	854.0 cal	27.3 cal	
protein	1.5 g	0.1 g	
fat	94.0 g	3.0 g	
	Nutritive Value of 100 g of Choice Beef (209)	Nutritive Value of 100 g of Choice Beef Minus 3.2 g Kidney Fat	Nutritive Value of 100 g of Choice Beef Excluding Kidney Fat
food energy	318.4 cal	291.1 cal	300.7 cal
protein	12.5 g	12.4 g	12.8 g
fat	29.4 g	26.4 g	25.6 g
	Nutritive Value of 100 g of Good Beef (210)	Nutritive Value of 100 g of Good Beef Minus 3.2 g of Kidney Fat	Nutritive Value of 100 g of Good Beef Excluding Kidney Fat
food energy	271.3 cal	244.0 cal	252.1 cal
protein	13.9 g	13.8 g	14.3 g
fat	23.5 g	20.5 g	21.2 g

#### Removal of kidney meat

	1960	0–72	19	973-75
	Average Nutritive Value of 100 g of Choice and Good Beef	Average Nutritive Value of 100 g of Choice and Good Beef Excluding 0.2 g Kidney Meat	Average Nutritive of 100 g of Good Beef	Average Nutritive Value of 100 g of Good Beef Excluding 0.2 g Kidney Meat
food energy protein fat carbohydrate calcium phosphorus iron vitamin A thiamine riboflavin niacin ascorbic acid total folate	276.4 cal 13.6 g 23.4 g 0.0 g 8.0 mg 121.0 mg 2.0 mg 16.4 RE 0.06 mg 0.12 mg 5.6 NE 0.0 mg 6.2 μ	276.7 cal 13.6 g 23.4 g 0.0 g 8.0 mg 120.8 mg 2.0 mg 16.0 RE 0.06 mg 0.11 mg 5.6 NE 0.0 mg 6.1 μ	252.1 cal 14.3 g 21.2 g 0.0 g 8.4 mg 127.7 mg 2.1 mg 15.1 RE 0.06 mg 0.13 mg 6.0 NE 0.0 mg 6.2 $\mu$	252.3 cal 14.3 g 21.2 g 0.0 g 8.4 mg 127.5 mg 2.1 mg 14.7 RE 0.06 mg 0.12 mg 6.0 NE 0.0 mg 6.1 μ

### TABLE 3.2. METHODOLOGY FOR EXCLUDING THE NUTRITIVE VALUE OF LARDING FAT FROM PORK

Since disappearance data exclude larding fat (17%) and nutrient values include larding fat (17%), in order to exclude larding fat from the nutrient value of pork, assume that larding fat = backfat and that Canadian pork = U.S. medium-fat class for the entire period 1960-75.

Backfat Without Skin (medium-fat class 1672b)	Nutritive Value of 100 g of Backfat	Nutritive Value of 17 g of Backfat
food energy protein fat carbohydrate calcium phosphorus iron vitamin A thiamine riboflavin niacin ascorbic acid	827.0 cal 2.1 g 90.7 g 0.0 g 1.0 mg 0.0 mg 0.3 mg 0.0 RE 0.10 mg 0.02 mg 0.6 NE 0.0 mg	140.6 cal 0.4 g 15.4 g 0.0 g 0.2 mg 0.0 mg 0.1 mg 0.0 RE 0.02 mg 0.10 mg 0.1 NE 0.00 mg
total folate	0.0 μ	0.0 μ

	Nutritive Value of	Nutritive Value of	Nutritive Value of
	100 g of Pork	83 g of Pork	100 g of Pork
	Including Larding	Excluding Larding	Excluding Larding
	Fat (1662)	Fat	Fat
food energy protein fat carbohydrate calcium phosphorus iron vitamin A thiamine	384.8 cal	244.2 cal	294.2 cal
	7.7 g	7.3 g	8.8 g
	39.0 g	23.6 g	28.4 g
	0.0 g	0.0 g	0.0 g
	4.5 mg	4.3 mg	5.2 mg
	77.3 mg	77.3 mg	93.1 mg
	1.1 mg	1.0 mg	1.2 mg
	0.0 RE	0.0 RE	0.0 RE
	0.38 mg	0.36 mg	0.43 mg
riboflavin niacin ascorbic acid total folate	0.09 mg	0.09 mg	0.11 mg
	3.6 NE	3.5 NE	4.2 NE
	0.0 mg	0.0 mg	0.0 mg
	6.2 $\mu$	6.2 μ	7.5 μ

TABLE 3.3. WEIGHT AND EDIBLE YIELD OF BEEF AND PORK OFFAL

Offal	Beef		Pork	
	weight/carcass kg	edible yield %	weight/carcass kg	edible yield %
Liver	4.54	81.6	1.27	77.0
Heart	1.63	96.4	0.23	89.0
Kidney	0.71	98.0	0.27	96.0
Tongue	1.32	98.3	0.18	90.0
Sweetbreads	0.45	80.0	_	0.0
Tripe	4.34	73.9	_	0.0
Brains		0.0	0.09	99.0

TABLE 3.4. DISTRIBUTION OF TOTAL OFFAL AMONG THE VARIOUS KINDS OF BEEF AND PORK ORGAN MEATS

Offal	Туре	Percentage of Total Offal
Liver	Beef	24.6
Livei	Pork	6.5
Heart	Beef	10.5
1100.1	Pork	1.3
Kidney	Beef	4.6
	Pork	1.7
Tongue	Beef	8.6
. 06	Pork	1.1
Sweetbreads	Calf and Beef	2.4
Tripe	Beef	21.3
Brains	Pork	0.6
Contaminated and		
Condemned		16.8
Total		100.0

## 4. RESULTS — APPARENT PER-CAPITA DOMESTIC DISAPPEARANCE DATA

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The objectives of this chapter are twofold: to summarize major trends in the apparent consumption (disappearance) of various foods by commodity group<sup>1</sup> and to discuss trends pertaining to various nutrients apparently available for consumption.

#### 4.1. Trends in food disappearance

There has been a marked change in the composition of the food basket since 1960, although the consumption of all food, as determined by apparent per-capita domestic disappearance of food in Canada, has remained relatively stable. Trends in major groups (Figures 4.1 to 4.6) are summarized below.

- —Red meat and poultry consumption has increased since 1965, primarily due to increases in beef and chicken consumption.
- —Dairy product consumption trended downward over the 1965–76 period. Fluid whole milk, butter, cream, and concentrated whole-milk products were largely responsible for this decline. This downward trend, however, was somewhat offset by the increase in consumption of cheese (Cheddar, process, and specialty).
- —Egg consumption increased slightly over the 1966-70 period but has decreased continuously since 1971.
- —Since 1965 there has been an increasing trend for fat and oil consumption. There has been a substitution of shortening and shortening oil, margarine, and salad oil for butter.
- —Cereal disappearance has remained relatively stable over the 1965–76 period.

- —The disappearance of fruits and vegetables increased over the period from 1960 to 1975. Major increases in this group have been for fresh fruit and fruit juices. Consumption of potatoes has fluctuated over the period but a declining trend is apparent.
- The consumption of sugars and syrups fluctuated over the period and no trend was discerned. However, in 1974, there was a significant decline due to sharp increases in the price of granulated and other sugars. Finally, the disappearance of beverages (coffee, tea, and cocoa) has remained relatively stable over the period under study.

### 4.2. Trends in apparent nutrient availability: disappearance data

For all nutrients considered in this study, results were tabulated and figures were prepared on which the discussion may be based. Tables presented in the appendixes giving yearly values for the 1960-75 period deal with unit value contributions by food groups to each of the 13 nutrients (Tables A.1-A.13, Appendix A); percentage contributions by food groups to each of the 13 nutrients (Tables D.1-D.13, Appendix D); and percentage contributions by nutrients to total food energy (Table F.1, Appendix F). Graphs related to the discussion in this section are also presented in the appendixes and show trends in nutrient availability for consumption (Figures B.1-B.13, Appendix B); and percentage contributions by food groups to each of the 13 nutrients (Figures D.1-D.13, Appendix D). However, for the sake of brevity, discussion will focus on the trends of percentage contributions by food groups to each nutrient in Canada.

4.2.1. Food energy

Over the 16-year period from 1960 to 1975 per-capita total energy available has increased slightly, ranging between a low of 2974 (1961)3 and a high of 3257 (1972) calories per day (Table 4.1).4 It is not likely that all of the energy available from the food supply (disappearance) is consumed. No estimates are available for wastage between the point at which the food is purchased and the consumers' dinner plate. The waste factors for high-carbohydrate foods and vegetable oils used in frying (major sources of energy in the diet) are likely to be high as these are relatively inexpensive items in the food basket and probably not highly valued by Canadians, at the current level of consumption, to meet nutritional requirements. The calculated figures, therefore, are used mainly as trend indicators.

While total energy intake has increased slightly, of note is the shift in energy source. The proportion of calories derived from protein has remained relatively stable, between 11.6 and 11.9 percent, while the proportion of calories from fat has steadily increased, and that from carbohydrate has decreased (Table F.1, Appendix F).

Food energy contributions by food groups show only minor changes since 1960. Most of the dietary energy comes from cereals, meat, fats and oils, sugars and syrups, and dairy products. The most noticeable changes since 1960 are a decreased proportion of energy from dairy products, cereals, and sugars and syrups, and an increase from meat and fats and oils (Table 4.2).

Evaluation of the diets from the Nutrition Canada Survey (1970-72),5 shows that in general there are few interprovincial differences in calorie intake but that the median intakes of Indians were lower than the corresponding national intakes, and the lowest among the Inuit. The recorded intakes in some groups, particularly those for the elderly (65 years of age and over) and Inuit women would be unlikely to supply adequate amounts of micronutrients. On the national level, the median calorie intakes of children under 10 years appeared to exceed generally accepted requirements, while those of teenage girls, especially 18-year-olds, were below requirements. The calorie intakes of adults (aged 20 to 64 years) did not appear to be excessive although the problem of overweight existed throughout Canada, with few interprovincial or ethnic differences.

#### 4.2.2. Macronutrients

#### 4.2.2.1. Protein

Per-capita protein availability between 1960 and 1975 increased, from 87.0 g (1962) to 94.6 g (1975) per day (Table 4.1). Although the contribution of protein to food energy has remained stable, there have been shifts in the protein availability from the various food groups. Food groups contributing to protein availability are dairy products, meat, and cereals. Over the 1960-75 period, the trend has been to derive a greater proportion of protein from meat and poultry and a smaller proportion from dairy products and eggs. Also of interest is the increased contribution by pulses and nuts. Although it comprises a small percentage of total protein, it increased from 3.9 percent in 1960 to 5.6 percent in 1975, thus increasing somewhat the importance of vegetable-based products as a source of protein (Table 4.3).

The Nutrition Canada Survey results indicate that the protein status of the majority of children, adolescents, and adults was satisfactory. However, both dietary and biochemical evidence suggests that the protein status of the elderly, especially elderly women, was only marginally adequate.

#### 4.2.2.2. Fat

The per-capita availability of fat has been increasing steadily since 1960, with the low for the period occurring in 1961 (130.6 g) and the high in 1972 (152.2 g). This increase can be attributed primarily to the increased apparent consumption of vegetable oil. Also of note is the shift from animal to vegetable sources of dietary fat. Several authors (Ware 1966, Pando 1970, Shute 1973, and Anderson 1977) have discussed the substitution of margarine and shortening oils for butter and lard. Several factors such as price, the increased prevalence of deep-fat frying (for example, in fast-food outlets), and concern about the cholesterol level of saturated animal fats may have contributed to this shift.

The percentage contribution by food groups to total fat has changed slightly since 1960. However, fats and oils, meat, and dairy products continue to be the primary sources of dietary fat. Over the period from 1960 to 1975 the contribution by fats and oils increased from 40.0 to 42.2 percent, while the contributions by meat and dairy products decreased 1.0 percent and 2.6 percent, respectively (Table 4.3). A decrease in meat fat contribution was noted, despite increases in meat consumption, probably due to the trend toward the production of leaner meat.

#### 4.2.2.3. Carbohydrates

The availability of carbohydrates for consumption per capita per day has been relatively steady with a low of 367.7 g (1961) and a high of 391.9 g (1965). Cereals, and sugar and syrups are the primary sources of dietary carbohydrates, accounting for approximately 75 percent of the total. Starting in 1960, there was a declining trend in the proportion of energy derived from carbohydrates and an increasing proportion of energy from carbohydrate sources derived from sugar and syrups. This increasing trend, however, was broken in 1974 when sugar prices averaged 96.2 percent higher than in the previous year. As a result of higher sugar prices, by 1975, Canadians had decreased their yearly consumption of sugar to 39.6 kg per capita, which had been 47.36 kg in 1973. This decrease in consumption was mainly responsible for the decrease in the amount of carbohydrates contributed by sugar and syrups from 37.2 percent in 1973 to 33.1 percent in 1974 and 31.9 percent in 1975.

A recent study of macronutrient intake<sup>6</sup> comparing four industrial countries (Canada, United States, the United Kingdom, and Sweden) shows similar trends over the past 25 years. These are: (1) no significant change in total energy available; (2) an increasing proportion of total energy derived from fat; (3) no significant changes in the proportion of energy from protein; and (4) a decreasing proportion of energy from carbohydrates, but from among the various forms of carbohydrates an increasing proportion from sugar.

Such dietary trends, in conjunction with other lifestyle trends have concerned nutritionists in recent years, in relation to the so-called "diseases of affluence." These concerns are brought out in *The Canadian Dietary Recommendations*, published by the federal government and include the recommendations to reduce total fat intake; reduce sugar intake but increase that of carbohydrates from other sources; to increase energy output and avoid obesity.

#### 4.2.3. Minerals

#### 4.2.3.1. Calcium and phosphorus

Calcium availability decreased 4.0 percent during the period from 1960 to 1975, with peak availability in 1966 at 1008.4 mg. This declining trend was noted by Spencer and Feaver [1975]. The availability of phosphorus, however, showed slight year-to-year variations ranging between 1440.7 g (1962) and 1514.8 g (1969). The largest decreases in a single

year for calcium and phosphorus (7.1 and 3.8 percent) were recorded in 1970. This change can be associated with the decline in fluid milk consumption from 130.23 kg to 124.38 kg per capita in the same period.

The contribution by dairy products, the major source of dietary calcium, has declined during the period from 81.3 to 76.4 percent (Table 4.4). Significant contributions to total phosphorus availability are made by dairy products, meat, and cereals. Whereas the contributions by dairy products and cereals to phosphorus have decreased during the period, from 44.5 to 40.3 percent and from 13.2 to 12.6 percent, respectively, the contribution by meat has increased from 14.0 to 16.5 percent.

According to the Nutrition Canada Survey, all groups, except pregnant women and teenage girls, had adequate median intakes of calcium. Teenage boys had the highest median intake of any age group and elderly women had the lowest. In general, males had higher intakes than females. Serum phosphorus levels fell dramatically with increasing age, and there was a wide range of phosphorus levels in each age group.

#### 4.2.3.2. Iron

The overall trend for iron availability has been slightly upward, with a low of 14.4 mg in 1961 and a high of 15.5 mg in 1972.

Breakfast foods, enriched wheat flour, offal, spinach, and lima beans are the major sources of dietary iron. A large share of the iron available for consumption is a result of the enrichment of grain products.

Cereals, meat, and fruit and vegetables are the groups providing the greatest proportion of dietary iron. Their contribution has remained relatively steady during the period (Table 4.4), with the contribution from cereals decreasing slightly (from 34.2 to 32.1 percent) and that from meat increasing slightly (from 22.4 to 25.8 percent).

The Nutrition Canada Survey results indicate that Canadian adolescents and women had median intakes in the marginal range and infants and children had barely adequate median intakes of iron, whereas only men had median intakes well in excess of the standard adequacy. There was a wide variation in values showing considerable daily differences in the amount of iron consumed. The dietary data for fruit, in contrast, showed that the median intakes of iron for most groups were higher than in the national population, although some groups such as adolescent girls still had intakes in the marginal range.

#### 4.2.4. Vitamins

The relatively high level of many vitamins (such as vitamins A, C, and D, riboflavin, thiamine, and niacin) in the Canadian diet is primarily a result of the enrichment of food.

#### 4.2.4.1. Vitamin A

During the 1960–75 period, the availability of vitamin A has shown a downward trend with a high of 1160.0 RE in 1960 and a low of 1064.6 RE in 1968. This decrease represents one portion of the downward trend which began in 1949, as noted by Shute [1973]. Vitamin A contributions by meat and eggs have decreased since 1960, while those by dairy products and fats and oils have remained relatively constant (Table 4.5). Without the mandatory enrichment of margarine, the decrease in vitamin A available for consumption would have been significant.

The Nutrition Canada Survey indicates that although the dietary data concerning vitamin A were singularly difficult to interpret, the results of the dietary recalls of many individuals were compatible with previous observations that some Canadians' livers are in a poor state. Most groups had adequate median intakes. Females, especially the middle-aged and elderly, usually had the lowest intakes, with median values generally in or near the marginal range. Dietary data indicate that many Indians had intakes that were only marginally adequate. The lowest dietary intakes were recorded for the Inuit.

#### 4.2.4.2. Thiamine, riboflavin, and niacin

Cereals are the primary source of thiamine, riboflavin, and niacin. High contribution levels are maintained by the provision for enrichment of breakfast cereals and the mandatory enrichment of white flour under the Food and Drugs Act and Regulations. The regulations specify the amounts and kinds of nutrients that either must be or may be added to specific foods in order to replace the nutrients lost during processing. For example, the bran layers of whole wheat are a significant source of B-vitamins and iron. Since white flour has lost its bran layer, the regulation provides for the addition of the lost nutrients to the level found in whole wheat flour. The enrichment of breakfast cereals is still optional, but that of white flour was made mandatory in August 1976. Before 1976 the regulations specified minimum amounts of nutrients that had to be in these products in order for them to be labeled enriched. It is estimated that due to the competitive nature of the industry, 95 percent of the breakfast cereals and 70 percent of the flour were enriched during the 1960-75 period.

The availabilities of riboflavin and niacin for consumption show increasing trends for the period, while the availability of thiamine has been decreasing. The contribution by dairy products to total thiamine, riboflavin, and niacin availability decreased over the period from 1960 to 1975, as did the contribution by cereals to thiamine and niacin availability. The contribution by meat to riboflavin and niacin increased slightly over the 16-year period studied (Table 4.6).

The Nutrition Canada Survey dietary assessments indicated that the diets of most Canadians contained adequate amounts of thiamine and riboflavin and an abundance of niacin. The diets of Inuit provided even larger quantities of these vitamins than those of the Indian and other population groups. Groups consuming relatively small amounts of food (for example, middle-aged and elderly women) had the least satisfactory intakes of these vitamins.

#### 4.2.4.3. Ascorbic acid

The availability of ascorbic acid for consumption decreased from 1960 to 1965, but increased for the years 1966 to 1975. According to Shute [1973], similar fluctuations have occurred since 1949.

Most of the dietary ascorbic acid available is derived from the fruit and vegetable groups. Over the period from 1960 to 1975, the contribution by vegetables decreased, while that by fruit increased.

The percentage contributions by potatoes, and tomatoes and tomato products to total ascorbic acid availability have decreased slightly during the period (from 33.5 to 28.4 percent for potatoes and from 11.9 to 10.7 percent for tomatoes and tomato products) and the contribution by citrus fruit increased from 19.4 to 21.5 percent (Table 4.6).

Nutrition Canada Survey dietary data showed that the median vitamin C intakes of all groups were adequate. Indians' median intakes were also satisfactory, but below national ones. Lowest median intakes were observed in the Inuit, where most were below the adequate standard. The elderly had the lowest levels of serum vitamin C, and nationally, the greatest percentage of individuals at high risk. Generally, middle-aged and elderly women had higher serum vitamin C levels, at the national level, than men in comparable age groups, although their median intakes were similar.

#### 4.2.4.4. Total folate

Total folate availability for consumption is the cumulative sum of small quantities available from a wide variety of foods. The availability of total folate remained fairly stable for the period from 1960 to 1973, with a small increase in the subsequent two years.

# 4.3. Comparison of results obtained from apparent per-capita domestic disappearance data and the Nutrition Canada Survey

Through a comparison of nutrient availability for consumption between apparent per-capita domestic disappearance data and the results of the Nutrition Canada Survey, an approximation of per-capita nutrient loss from the retail level to actual consumption may be made.

For the Nutrition Canada Survey, nutrient values were applied to quantities of specific food items consumed at home and away from home during a 24-hour period prior to the interview, and the frequency with which certain foods were consumed during the previous month was ascertained. The intake of vitamin and mineral supplements was also determined: their contribution to total nutrient intake has, however, been excluded from the calculations. In this way, an estimate of the nutritive value of food consumed by a representative sample of the population could be established. An estimate of the average daily nutrient intake for the Canadian population was the calculated average for nutrient intake weighted for age and sex stratifications (Table 4.7).7

Nutrients available for consumption as calculated from domestic disappearance data, and nutrients

actually consumed as calculated from Nutrition Canada Survey data, are presented in Table 4.8.

Significant differences noted in food energy and the macronutrients protein, fat, and carbohydrates are the result of nutrient losses along the food chain from producer to consumer. This would include factors such as trimming, processing, food loss due to spoilage, table waste, etc.

<sup>&</sup>lt;sup>1</sup> See also D.T. Karamchandani's "Trends in Food Consumption, Prices and Expenditures, 1961–73," pp. 17–26.

<sup>&</sup>lt;sup>2</sup> The Apparent Per Capita Domestic Disappearance of Food in Canada figures are estimates of the amount of food available on the average to the total population, and therefore do not represent the total food supplies actually consumed by individuals or specific groups (see Section 3). These data do, however, provide an indicator of what is consumed, and further discussion will be based on this premise.

 $<sup>^3</sup>$  The figure in parentheses is the year for which the available nutrient is calculated.

<sup>&</sup>lt;sup>4</sup> Similar observation of food energy availability for consumption were reported by both Shute [1973] and Anderson [1977]. In fact Anderson and Sinclair [1969] reported relatively stable food energy availability since 1935.

<sup>&</sup>lt;sup>5</sup> Health and Welfare Canada. Nutrition Canada: The Ontario Survey Report.

<sup>&</sup>lt;sup>6</sup> Health and Welfare Canada. Nutrition and Health, Report by Policy Research and Strategic Planning.

<sup>&</sup>lt;sup>7</sup> Nutrient intake, as reported in the Nutrition Canada Survey, by age and sex stratifications, was multiplied by the June 1, 1972 population for each stratification. The products were summed, and then divided by the total Canadian population. These results were to give the per-capita nutrient intake for an average Canadian.

TABLE 4.1. NUTRIENTS AVAILABLE FOR TOTAL CONSUMPTION (HOME AND AWAY FROM HOME) PER CAPITA PER DAY, 1960-75: DISAPPEARANCE DATA

Year	Food Energy	nergy	Protein	Fat	Carbo- hydrates	Calcium	Phosphorus	Iron	Vitamin A	Thiamine	Ribo- flavin	Niacin	Ascorbic Acid	Total Folate
	cal	kJ	50	bD	50	mg	mg	mg	RE	mg	mg	ZE	mg	η
1960	3 028.76	12 521	89.00	132.37	376.73	1 005.40	1 472.67	14.61	1 159.96	1.84	2.37	38.33	100.63	199.03
1961	2 974.01	12 295	88.18	130.64	367.65	1 008.09	1 464.50	14.40	1 111.28	1.80	2.37	37.82	97.92	194.85
1962	3 007.46	12,433	87.01	132.66	373.17	977.37	1 440.66	14.47	1 137.21	1.79	2.31	37.83	97.82	194.59
1963	3 046.16	12 593	89.39	134.49	376.04	994.21	1 472.85	14.79	1 104.64	1.81	2.36	38.38	93.13	192.96
1964	3 065.93	12 675	89.37	136.70	376.49	992.25	1 475.19	14.77	1 099.31	1.80	2.33	38.43	93.76	193.33
1965	3 129.53	12 937	91.45	135.88	391.87	986.83	1 485.34	15.11	1 075.44	1.83	2.36	39.24	90.90	195.70
9961	3 134.54	12 958	90.53	140.99	382.91	1 000.85	1 487.17	14.95	1 082.82	1.79	2.36	38.68	91.40	195.19
1961	3 170.40	13 106	91.56	144.39	383.29	979.45	1 493.61	15.13	1 099.18	1.85	2.34	39.79	101.45	196.66
1968	3 166.65	13 091	90.85	145.45	380.62	979.43	1 477.61	14.85	1 064.61	1.80	2.33	39.29	95.60	192.39
1969	3 194.92	13 208	93.12	146.09	383.65	1 008.44	1 514.79	15.00	1 087.11	1.83	2.39	40.11	98.59	194.76
1970	3 186.12	13 171	91.18	147.10	381.23	936.90	1 457.23	15.11	1 088.05	1.83	2.30	39.68	98.80	193.15
1971	3 217.40	13 301	91.15	150.96	380.89	925.55	1 468.64	15.34	1 123.06	1.85	2.27	39.84	100.24	197.31
1972	3 256.69	13 463	92.53	152.22	386.38	933.17	1 484.75	15.51	1 097.17	1.84	2.29	40.27	98.63	198.74
1973	3 213.99	13 287	91.47	146.60	389.81	942.00	1 469.68	15.15	1 077.63	1.80	2.27	39.99	101.22	193.91
1974	3 195.63	13 211	93.95	149.62	375.42	985.72	1 513.98	15.28	1 137.73	1.88	2.34	40.69	104.56	202.46
1975	3 168.22	13 097	94.58	147.20	373.39	965.47	1 510.44	15.31	1 128.81	1.89	2.33	41.65	109.94	204.40

TABLE 4.2. COMPARISON OF PERCENTAGE CONTRIBUTIONS TO FOOD ENERGY BY MAJOR FOOD GROUPS IN CANADA

Food Group	1960	1975	Meana
		percent	
Cereals	23.0	22.2	22.0
Meat	15.9	16.7	16.6
Fats and Oilsb	15.5	17.4	16.6
Sugars and Syrups	15.9	14.6	16.2
Dairy Products	13.3	11.6	12.2

<sup>&</sup>lt;sup>a</sup> Sum of the percentage contribution for each of the years 1960 to 1975 inclusive divided by 16.

TABLE 4.3. COMPARISON OF PERCENTAGE CONTRIBUTIONS TO PROTEIN, FAT, AND CARBOHYDRATES BY MAJOR FOOD GROUPS **IN CANADA** 

Nutrient and			
Food Group	1960	1975	Mean
		percent	
Protein		·	
Meat	24.4	27.3	25.8
Dairy Products	26.0	22.9	24.7
Cereal	22.2	21.0	21.3
Fat			
Fats and Oilsa	40.0	42.3	41.3
Meat	32.5	31.5	32.7
Dairy Products	15.7	13.1	13.9
Carbohydrates			
Cereals	38.7	39.7	37.9
Sugars and Syrups	33.0	32.0	34.5

<sup>&</sup>lt;sup>a</sup> Includes butter.

TABLE 4.4. COMPARISON OF PERCENTAGE CONTRIBUTIONS TO CALCIUM, PHOSPHORUS, AND IRON BY MAJOR FOOD **GROUPS IN CANADA** 

Nutrient and			
Food Group	1960	1975	Mean
		percent	
Calcium		•	
Dairy Products	81.3	76.4	80.2
Phosphorus			
Dairy Products	44.4	40.3	43.0
Meat	14.0	16.5	15.2
Cereals	13.2	12.6	12.8
Iron			
Cereals	34.2	32.1	32.6
Meat	22.4	25.8	23.7
Fruit and Vegetables <sup>a</sup>	19.5	19.6	18.8

<sup>&</sup>lt;sup>a</sup> Includes tomatoes and tomato products, citrus and other fruit, other vegetables, and potatoes.

<sup>&</sup>lt;sup>b</sup> Includes butter.

TABLE 4.5. COMPARISON OF PERCENTAGE CONTRIBUTIONS TO VITAMIN A BY MAJOR FOOD GROUPS IN CANADA

Food Group	1960	1975	Mean
		percent	
Fats and Oilsa	24.3	23.5	25.3
Other Vegetables <sup>b</sup>	25.8	28.1	24.4
Dairy Products	16.4	15.9	16.4
Meat	19.1	15.1	16.8

<sup>&</sup>lt;sup>3</sup> Includes butter.

TABLE 4.6. COMPARISON OF PERCENTAGE CONTRIBUTIONS TO THIAMINE, RIBOFLAVIN, AND ASCORBIC ACID BY MAJOR FOOD GROUPS IN CANADA

Nutrient and Food Group	1960	1975	Mean
		percent	
Thiamine			
Cereals Meat Dairy Products Riboflavin	38.4 20.7 13.0	36.8 19.7 11.1	37.7 21.2 12.5
Dairy Products Cereals Meat	45.7 23.4 12.2	41.7 23.3 12.9	44.5 23.2 12.5
Ascorbic Acid			
Potatoes Citrus Fruit Other Vegetables <sup>a</sup> Other Fruit	33.5 19.4 28.6 9.4	28.4 21.5 32.8 11.3	31.9 18.9 30.4 10.7

a Includes tomatoes and tomato products.

APITA NUTRIENT INTAKE AND POPULATION BY AGE AND SEX STRATIFICATION FOR CANADA
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		Children	Children	Adults (12 – 19)	2 - 19)	Adults (20 – 39)	0 - 39	Adults (40 – 64)	0 - 64)	Adults (65+)	(+c0)	
Nutrient	Infants	(1 - 4) (5 - 11)	(5 - 11)	Male	Female	Male	Female	Male	Female	Male	Female	All Individuals <sup>a</sup>
Cood Engage (ool)	00 900	1 666 00 3 300 00	2 300 00	3 251 00	2 243 00	3 374 00	2 001.00	2.671.00	1 726.00	2 056.00	1 530.00	2 353.00
Food Energy (L1)	3 828 00	6 887 00	9 508 00	13 440 00	9 273 00	13 948.00	8 272.00	11 042.00	9 135.00	8 500.00	6 325.00	9 727.00
Tool Elici By (NJ)	39.00	00.785.0	77.00	111.00	76.00	119.00	72.00	94.00	63.00	72.00	54.00	83.00
Fat (a)	31.00	70.00	00'96	147.00	100.00	154.00	89.00	118.00	75.00	89.00	63.00	103.00
Carbohydrates (o)	124 00	203.00	290.00	378.00	269.00	351.00	227.00	286.00	197.00	235.00	187.00	268.00
Calcium (mo)	1 131 00	1 082.00	1 115.00	1 337.00	967.00	1 081.00	709.00	883.00	613.00	709.00	619.00	930.00
Iron (mo)	27.00	10.00	12.00	17.00	11.00	18.00	12.00	16.00	11.00	13.00	10.00	14.00
Vitamin A (RE)	698.00	879.00	1 114.00	1 455.00	1 036.00	1 551.00	1 292.00	1 332.00	1 031.00	1 113.00	1 008.00	1 213.00
This mine (mo)	1.03	0.93	1.18	1.65	1.07	1.57	1.02	1.32	06.0	1.08	0.85	1.19
Rihoflavin (mo)	2.12	2.11	2.33	2.96	1.90	2.59	1.70	2.09	1.49	1.77	1.47	2.09
Niacin (NE)	16.00	22.00	28.00	43.00	27.00	48.00	28.00	37.00	25.00	28.00	21.00	32.00
Ascorbic Acid (mg)	54.00	84.00	00.66	101.00	92.00	118.00	89.00	101.00	106.00	85.00	87.00	98.00
Total Folate (")	65.00	122.00	160.00	210.00	153.00	221.00	146.00	183.00	148.00	151.00	130.00	166.00
Population ('000)	347.80	1 436.60	3 113.00	1 811.70	1 743.50	3 119.60	3 072.70	2 666.00	2 701.80	797.00	991.40	21 001.00

sex group. and Statistics Canada, Intercensal Estimates of the Population by Sex and Age, Canada and the Provinces. Sources: Health and Welfare Canada, Nutrition Canada Food Consumption Patterns Report,

<sup>&</sup>lt;sup>b</sup> Includes tomatoes and tomato products, and excludes potatoes.

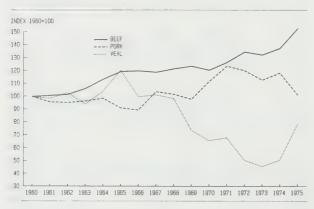
TABLE 4.8. COMPARISON OF NUTRIENT INTAKES, PER CAPITA PER DAY, AS DETERMINED FROM DOMESTIC DISAPPEARANCE DATA AND DATA FROM THE NUTRITION CANADA SURVEY, 1970–72<sup>a</sup>

Nutrient	Apparent Per Capita Domestic Disappearance Data (1970-72)	Nutrition Canada Survey (1970-72)
Food Energy (cal)	3 220.00	2 353.00
Food Energy (kJ)	13 472.00	9 845.00
Protein (g)	92.00 (11%)	83.00 (14%)
Fats (g)	150.00 (42%)	103.00 (40%)
Carbohydrates (g)	383.00 (47%)	268.00 (46%)
Calcium (mg)	932.00	930.00
Iron (mg)	15.00	14.00
Vitamin A (RE)	1 103.00	1 213.00
Thiamine (mg)	1.84	1.19
Riboflavin (mg)	2.29	2.09
Niacin (NE)	40.00	32.00
Ascorbic Acid (mg)	99.00	98.00
Total Folate (µ)	196.00	166.00

<sup>&</sup>lt;sup>a</sup> Figures in parentheses give the percentage contribution to total food energy intake.

Sources: See Tables 4.1 and 4.8.

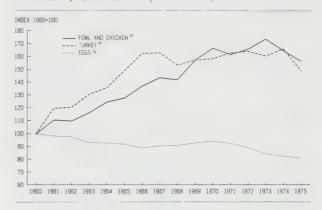
FIGURE 4.1. PER-CAPITA DOMESTIC DISAPPEARANCE:<sup>a</sup> BEEF, PORK, AND VEAL (1960=100)



<sup>&</sup>lt;sup>a</sup> Cold dressed carscass weight.

Source: Statistics Canada, Apparent Per-Capita Domestic Disappearance of Food in Canada, Catalogue No. 32-226.

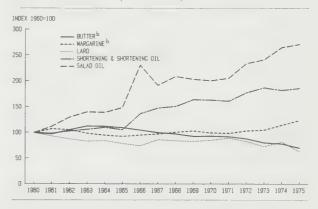
FIGURE 4.2. PER-CAPITA DOMESTIC DISAPPEARANCE: FOWL AND CHICKEN, TURKEY, AND EGGS (1960=100)



<sup>&</sup>lt;sup>a</sup> Eviscerated weight.

Source: See Figure 4.1.

FIGURE 4.3. PER-CAPITA DOMESTIC DISAPPEARANCE: BUTTER, MARGARINE, LARD, SHORTENING AND SHORTENING OIL, AND SALAD OIL (1960=100)



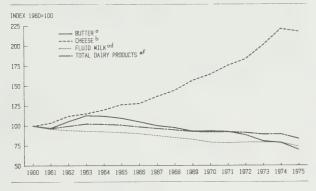
<sup>&</sup>lt;sup>a</sup> Retail weight.

Source: See Figure 4.1.

<sup>&</sup>lt;sup>b</sup> Fresh egg equivalent.

<sup>&</sup>lt;sup>b</sup> Includes creamery, farm, and whey butter.

## FIGURE 4.4. PER-CAPITA DOMESTIC DISAPPEARANCE: BUTTER, CHEESE, FLUID MILK, AND ALL DAIRY PRODUCTS (1960=100)



- <sup>a</sup> Inlcudes creamery, farm, and whey butter.
- <sup>b</sup> Includes Cheddar, processed, and other cheese.
- <sup>c</sup> Includes fluid sales, as well as milk and cream consumed in the farm home.
- d Newfoundland excluded.
- <sup>e</sup> Newfoundland excluded from fluid milk, but included for all other products.
- f In terms of milk.

Source: See Figure 4.1.

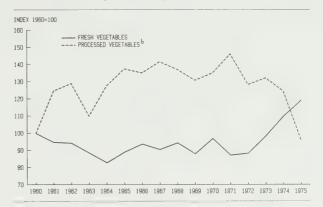
## FIGURE 4.5. PER-CAPITA DOMESTIC DISAPPEARANCE:<sup>a</sup> FRESH AND PROCESSED FRUIT (1960=100)



a Excluding tomatoes.

Source: See Figure 4.1.

## FIGURE 4.6. PER-CAPITA DOMESTIC DISAPPEARANCE:<sup>a</sup> FRESH AND PROCESSED VEGETABLES (1960=100)



<sup>&</sup>lt;sup>a</sup> Excluding tomatoes, potatoes, and mushrooms.

Source: See Figure 4.1.

<sup>&</sup>lt;sup>b</sup> Fresh equivalent.

<sup>&</sup>lt;sup>b</sup> Fresh equivalent.



## 5. RESULTS — FAMILY FOOD EXPENDITURE SURVEY DATA

An alternative means of determining the availability of food for purchase by the Canadian population is through the use of nationwide family food expenditure surveys. Sub-surveys have been undertaken by Statistics Canada since 1949, although their scope and frequency have varied considerably. The discussion in this section is based on data derived from the 1969 Family Food Expenditure Survey and the 1974 Urban Family Food Expenditure Survey.<sup>1</sup>

Numerous tables and graphs of statistical survey results were prepared and are presented in the appendixes. Tables giving 1969 and 1974 values for all families and for families and unattached individuals in the five income quintile groups are the unit values of major food-group contributions from food consumed at home ascribed to each of the 13 major nutrients (Tables A.14-A.27, Appendix A), and percentage contributions by major food groups to each of the nutrients for food prepared at home (Tables E.1-E.13, Appendix E). Related graphs are also presented in the appendixes and show changes in nutrient availability from food consumed at home (Figures C.1-C.13 Appendic C), and percentage contributions by major food groups to each of the nutrients discussed (Figures E.1-E.13, Appendix E). For the sake of brevity, discussion focuses on changes in the expenditure shares for food prepared at home and food consumed away from home and on nutrient availability from food consumed at home in 1974, for all families and for families and unattached individuals in the first and fifth income quintile groups.2

## 5.1. Weekly per-capita food expenditure shares by income quintile, 1969 and 1974

Between 1969 and 1974 the average per-capita weekly expenditure for food prepared at home fell from 78.0 to 75.0 percent of total food expenditure, while expenditure for food consumed away from home increased from 22.0 to 25.0 percent during the same period (Table 5.1).

Families and unattached individuals in the first quintile decreased their share of total food expenditure for food consumed away from home (from 21.8 to 19.5 percent) while increasing their expenditure for food prepared at home (from 78.2 to 80.5 percent). Families and unattached individuals in the fifth quintile, however, continued to increase their expenditure on food consumed away from home (from 27.8 to 30.7 percent) while decreasing the expenditure for food prepared at home (from 72.2 to 69.3 percent).

Of note, however, is the significantly greater share of total food expenditures for food consumed away from home for participants in the fifth quintile than those in the first quintile in both 1969 (27.8 as compared to 21.8 percent) and 1974 (30.7 as compared to 19.5 percent). This distribution results in a potentially lower proportion of total nutrient intake from food prepared at home for fifth-quintile respondents than those in the first income quintile. The reverse may hold for the share of nutrient intake from food consumed away from home.

### 5.2. Nutrient availability from food prepared at home, 1974

The following discussion will focus on the 1974 per-capita daily intake of food energy, macronutrients (protein, fat, and carbohydrates), vitamins (vitamin A, ascorbic acid, total folate, and niacin), and minerals (calcium, phosphorus, and iron), from food purchased for home consumption by families and unattached individuals in the first and fifth income quintiles as compared with the average for all families. Changes in the purchasing patterns between 1969 and 1974 of various foods consumed that are of significance to specific nutrients will also be discussed.

5.2.1. Food energy

In 1974, first-quintile respondents derived a greater amount of energy from food consumed at home (2278.4 cal or 9419.0 kJ) than all families (2156.6 cal or 8915.0 kJ (Table 5.2)), mainly due to relatively more purchases of bakery, cereal, and dairy products, miscellaneous groceries, and fats and oils. The fifth-quintile respondents, on the other hand, derived less food energy from food prepared at home (2108.7 cal or 8717 kJ) than the average, mainly due to lesser purchases of bakery and cereal products, miscellaneous groceries, and fats and oils (Tables A.14–A.15, Appendix A).

#### 5.2.2. Macronutrients

Respondents in both the first and fifth quintiles had protein intakes above the intake level for all families of 69.0 g (71.4 and 69.5 g, respectively). Although families and unattached individuals in the first quintile decreased their homogenized milk and egg intake from the 1969 level, increases in the consumption of fish, low-fat milk, cheese, chicken, and pork contributed to protein intake in 1974. Families and unattached individuals in the fifth quintile decreased their homogenized milk, poultry, and fish intakes in 1974, while significantly increasing those of eggs and cheese.

Total fat intake for the first-quintile respondents (107.0 g) was above that of all families (104.9 g) in 1974, perhaps part of the trend towards a greater consumption of visible fats, especially margarine, and cooking oils. The increased purchases of cheese and pork served to supplement the higher fat intake. On the other hand, the shift from homogenized milk (3.3 percent fat) to low-fat milk (2.0 percent fat), and the moderate decrease in butter consumption served to moderate the overall increases in fat consumption.

Respondents in the fifth quintile showed a fat intake equal to that for all families (104.9 g), despite significant increases in oil and margarine intake, as butter and homogenized milk consumption fell. Families and unattached individuals in this group failed to substitute low-fat milk for homogenized milk, and thus minimize the effect on fat intake, as did those in other income groups.

Finally, respondents in the first quintile showed a carbohydrate intake significantly higher than that of all families (262.6 g compared to 238.7 g). Participants in the fifth quintile had a lower carbohydrate intake than all families (226.1 g). Calculations based on the 1974 Family Food Expenditure Survey data show that family expenditure elasticities for cereal products are -0.1558 for all families, -0.0765 for families with incomes under \$6,000 and -0.2437 for families with incomes over \$15.000.3

Notable for families and unattached individuals in both the first and fifth quintiles is the shift from bakery to cereal products. Bread consumption fell, while the purchase of both breakfast cereals and flour showed increased popularity. Within cereal products, a shift toward greater consumption of prepared breakfast cereals, probably due to their convenience, is evident. The introduction of rice in the 1974 survey also served to supplement the carbohydrate contribution by cereal products. However, a significantly higher intake of sugar by first-quintile respondents is a primary factor in the high carbohydrate consumption by this group, as compared to that of other income quintile groups.

#### 5.2.3. Minerals

First-quintile respondents showed levels of calcium and phosphorus consumption above the averages for all families of 768.5 and 1088.4 mg (786.5 and 1119.3 mg). While higher fluid milk (homogenized and low-fat) and cheese consumption levels are primarily responsible for both the higher calcium and phosphorus levels, increases in the intake of cereals, flour, and pork served to augment the higher phosphorus availability for this group.

Fifth-quintile respondents, on the other hand, had a calcium intake below that for all families (758.8 mg) since they failed to replace their lower purchase level of homogenized milk with a higher one of low-fat milk, as those in the first quintile did. Higher levels of cheese and pork consumption in 1974 account for an average fifth-quintile phosphorus intake (1092.8 mg) above that of all families.

Finally, in 1974, respondents in the first quintile had an iron intake above the average for all families of 12.8 mg (13.1 mg), due to higher levels of consumption of breakfast cereal, flour, and pork. Participants in the fifth quintile had an iron intake equal to that for all families, mainly due to increased egg consumption by this group in 1974.

#### 5.2.4. Vitamins

In 1974, first-quintile respondents consumed more vitamin A (1177.2 RE) than all families (1010.6 RE), largely due to an increased consumption of low-fat milk, margarine, and cheese, while decreases in butter and liver intake were moderate. Fifth-quintile respondents, however, had a vitamin A intake below that of all families (985.3 RE), as significant decreases in the consumption of homogenized milk, butter, and liver outweighed increases in cheese and margarine consumption.

Families and unattached individuals in both the first and fifth quintiles consumed the same amount of thiamine and riboflavin as all families (1.3 and 1.7 mg) in 1974. Both income groups took in more niacin than all families, 29.1 Niacin Equivalents (30.5 and 29.5 NE), due to an increased consumption of pork and dried vegetables.

In 1974, families and unattached individuals in both the first and fifth quintiles consumed 84.7 mg of ascorbic acid per day, a level above that of all families (80.1 mg). Increases in the potato purchases by low-income families and those of frozen orange juice by high-income families served to moderate the overall decrease in ascorbic acid intakes from their 1969 levels.

In 1974, first- and fifth-quintile respondents had total folate intakes above the all-family average of

 $165.6 \mu$  (174.7 and 171.2  $\mu$ , respectively). The higher-than-average intake of total folate by these groups is likely the result of an accumulation of slightly higher levels from many foods, as this nutrient is widely dispersed in food.

## 5.3. Comparison of domestic disappearance and Family Food Expenditure Survey data results

A comparison of the availability of nutrients, as calculated from apparent food disappearance and family food expenditure survey data, is not feasible. The omission of all nutrients derived from food consumed away from home, as well as the procedural differences noted in Section 3.1., result in significantly lower levels of nutrients available for consumption as calculated from survey data, than from per-capita domestic disappearance data. As expenditures for food consumed away from home increased significantly between 1969 and 1974, this factor must be taken into account when discussing changes in nutrient availability between the two years. The inclusion of nutrient values for food consumed away from home, however, is not possible at the present time, as quantities of purchased meal components are not reported.

<sup>&</sup>lt;sup>1</sup> See also D.T. Karamchandani's "Changes in Food Expenditure Patterns, 1969–1974."

<sup>&</sup>lt;sup>2</sup> Participants in the surveys were asked to state their incomes. The sample was then divided into five groups (quintiles), each representing an income category. The first quintile is the lowest-income category and the fifth is the highest. An average of all income groups is reported for all families.

<sup>&</sup>lt;sup>3</sup> Z.A. Hassan, and S.R. Johnson, *Urban Food Consumption Patterns in Canada*.

TABLE 5.1. WEEKLY FOOD EXPENDITURE SHARES BY INCOME QUINTILE, 1969 AND 1974

	A Fam	* *	1s Quir		5t Quir	
Item	1969	1974	1969	1974	1969	1974
			perc	ent		
All Food Food Prepared at	100.0	100.0	100.0	100.0	100.0	100.0
Home Food Consumed	78.0	75.0	78.2	80.5	72.2	69.3
Away from Home	22.0	25.0	21.8	19.5	27.8	30.7

	Food				Carbo-				Vitamin		Ribo-		Ascorbic	Total
Group	Energy		Protein	Fat	hydrates	Calcium	Phosphorus	Iron	Y	Thiamine	flavin	Niacin	Acid	Folate
	cal	KJ	50	0.0	50	gm	mg	mg	RE	mg	mg	N	mg	π
1969 All Families	2220.6	9180.0	71.1	106.7	249.4	827.1	1141.0	13.1	1077.4	1.3	1.7	30.0	85.6	173.3
1st Ouintile	2179.1	0.8006	68.3	103.3	249.8	795.8	1095.1	12.8	1132.3	1.3	1.7	29.2	87.6	173.0
2nd Ouintile	2188.0	9045.0	0.69	104.8	247.6	789.0	1098.6	13.0	1095.5	1.3	1.7	29.3	82.7	168.6
3rd Ouintile	2314.0	9566.0	74.1	110.5	260.8	867.5	1190.5	13.7	1089.4	1.3	1.8	31.0	80.7	178.1
4th Ouintile	2296.8	9495.0	73.6	110.8	256.7	849.0	1168.9	13.4	1013.5	1.3	1.8	31.0	85.4	175.6
5th Quintile	2134.2	8823.0	2.69	104.1	234.9	825.5	1134.5	12.6	1078.3	1.3	1.7	29.5	91.4	172.3
1974 All Families	2156.6	8915.0	0.69	104.9	238.7	768.5	1088.4	12.8	1010.6	1.3	1.7	29.1	80.1	165.6
1st Ouintile	2278.4	9419.0	71.4	107.0	262.6	786.5	1119.3	13.1	1177.2	1.3	1.7	30.5	84.7	174.7
2nd Ouintile	2165.6	8953.0	67.1	103.5	246.3	748.6	1054.9	12.9	1072.0	1.3	1.7	28.5	82.0	165.8
3rd Ouintile	2110.7	8726.0	2.99	102.5	234.9	759.4	1056.9	12.3	964.7	1.2	1.7	28.1	73.3	156.9
4th Ouintile	2200.2	0.9606	70.1	107.8	242.0	790.2	1116.3	13.0	6.076	1.3	1.7	29.3	78.8	164.5
5th Quintile	2108.7	8717.0	69.5	104.9	226.1	758.8	1092.8	12.8	985.3	1.3	1.7	29.5	84.7	171.2

#### 6. LIMITATIONS

During the course of the study, it was recognized that food consumption data, as such, do not exist, and that some of the existing data on the nutrient composition of food were incomplete. It is believed, however, that the results are the most accurate that can be drawn under the circumstances and should be used as an approximation which will need to be revised from time to time as further information accumulates. In this section we have outlined the current situation with respect to data availability, the shortcomings of the data for application to the study, recommendations for modification, and expansion of the data base, as well as the accuracy in results that can be expected from such action.

#### 6.1. Domestic disappearance data

**6.1.1.** Time lag in balance-sheet reporting The domestic disappearance data are obtained as a

The domestic disappearance data are obtained as a residual in the preparation of annual balance sheets, which show the supply and disposition of each food item. To obtain gross supply, imports and beginning stocks are added to production estimates. This figure minus exports and ending stocks gives net supply. The approximate amount of food available for human consumption is found by subtracting seed requirements, manufacturing use, and livestock feed where applicable from net food supply.

The data for the components of the food balance sheets are mainly derived from farm surveys and reports by firms engaged in producing and marketing in the food industry. Due to the complex organizations of the data sources there is a time lag in the reporting of information. This means that balance sheets, even in preliminary form, are not available for at least a year and are not complete for

another year or two. A further lag exists between the time when the need for policy change from the results of nutrient availability studies is recognized and the time when a benefit is derived from policy action. Thus, the total time lag between the occurrence of a change in nutrient availability and the desired correction may be several years.

The present lag in balance-sheet reporting has serious implications for the timeliness of policy actions. Changes in consumption patterns during the two to three years prior to publication cannot be included and policy decisions must be based on long-term trends in nutrient availability. An improvement might occur if manufacturing industries and farmers were to provide more timely information through better cooperation than exists at present between the various government departments and the private sector.

### **6.1.2.** Food not available for human consumption

With the exception of estimates for meat and poultry, which are calculated on a cold dressed carcass and eviscerated-weight basis, the per-capita estimates of domestic food disappearance are calculated on a retail or product weight basis. The waste factors used for specific commodities except meat account for waste up to the retail level, but do not allow for losses in stores, households, private institutions, or restaurants. Per-capita values for meat include features such as bone-in and fat weight, a significant proportion of which is trimmed off before meat is sold at the retail counter. In this study, an adjustment factor has been applied to carcass weight to account for bone and fat removed.

Disappearance data for offal also include those for offal not available for human consumption, such as tankage, and offal used in the manufacture of pet food, thus overstating apparent per-capita consumption figures. In this study, a conversion factor for offal disappearance was arrived at after consultation with representatives of several meat-packing companies. This factor was applied to the entire time series, assuming a constant ratio of food for human consumption to food for other uses. It is suggested that the *Apparent Per Capita Domestic Disappearance* figures include only offal for human consumption. Such information may be obtained from shipment data of meat packing plants.

## **6.2.** Family Food Expenditure Survey data

### 6.2.1. Lack of data for food consumed away from home

Survey data were collected by using a diary in which respondents recorded, by item, for two consecutive weeks, the expenditure and quantity of food purchased for household use, and the expenditure on meals and snacks in eating places.

Purchases of meals and snacks in eating places were recorded as meal and snack types only, i.e., breakfasts, lunches, dinners, snacks, soft drinks, other non-alcoholic beverages, and chocolate bars. Representative nutrient values for these foods were not available. Using survey data only, it was, therefore, not possible to account for nutrients available from food consumed in restaurants and cafeterias. The implication of such an omission was, however, recognized. Expenditure on food and beverages in eating places as a percentage of total food expenditure increased from 22.0 percent in 1969 to 25.1 percent in 1974 with a corresponding decrease in the expenditure proportion on food prepared at home. A study of changes in nutrient availability based on the data for food prepared at home alone, without taking into account the nutrient contribution by food consumed away from home, would give the false impression of a decreasing intake of many nutrients, for which disappearance data showed an increase. Therefore, major government policies should not be based on the data from the surveys used in this study.

6.2.2. Lack of data on processed foods

Consumers are shifting toward greater consumption of processed foods, as rapid technological developments in food processing (cooking, freezing, canning, dehydrating, and changing the physical characteristics of raw foods) are increasing convenience. The benefit of time and energy conserved through using processed foods perhaps outweighs the generally increased price and potential differences in flavor or other characteristics. Processing procedures used on some foods, on the other hand, may be considered to enhance the palatability and appearance of some raw food commodities. The trend toward an increased use of processed foods is evident from consumer survey data and industry data. These trends have important implications, in research studies, for users of the data obtained from expenditure surveys and from food balance sheets.

In recent years, Statistics Canada has expanded the food disappearance data to include pasta, peanut butter, pickles, and sauces. This list is by no means representative of the foods purchased in a processed form by the consumer. The raw foods used in their manufacture, however, are reflected in disappearance data, but the latter do not account for nutrients lost in processing. Although it is desirable that consumption data be available for a greater number of processed foods and that balance sheets for raw commodities be modified to show utilization in food industry, the data required for such calculations are not available.

### 6.3. Nutrient values used in Canadian nutrition studies

#### 6.3.1. Current nutrient values

Nutrient values for use in Canadian nutrition studies are as limited today as they have been in the past. Historically, nutrient values used in Canadian studies (Sinclair 1957, Shute 1973, and Anderson 1977) have been primarily those used in the United States (USDA, Composition of Foods [1950 and 1963] and those of the Food and Agriculture Organization (FAO) [1949 and 1954]). Although Health and Welfare Canada has produced two publications of nutrient values — Table of Nutrient Values Recommended For Use in Canada [periodically since 1944] and Nutrient Values of Some Common Foods [1974 and 1979],² their reliance on American data is evident.

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The data compiled by USDA are values currently considered most representative for each product described for the United States. The nutrient content of plant foods can vary greatly depending on factors such as variety, soil, fertilizer, size, degree of maturity, season, length of day, light intensity, temperature, etc. Much less variation can be noted in animal products as far as macronutrients are concerned. However, the iron and vitamin A content of animal tissue is dependent on the animal's diet. Canadian and American foods differ in their composition due to differences in enrichment levels and livestock grading and trimming procedures. Adjustments, therefore, should be made to American nutrient values prior to their application in Canadian studies.

### **6.3.2.** Development of nutrient factors for use in Canadian studies

The procedure for calculating the nutrient composition of foods is very lengthy and costly. Since the availability and nutrient composition of many food items are similar for Canada and the United States, calculation of a complete Canadian set of nutrient values is not necessary.

The nutrient composition of some items, however, can be expected to differ between the two countries due to differences in enrichment levels and livestock grading and trimming procedures. For these items, it is possible to estimate factors that can be applied to American nutrient values for use in Canadian studies. Such a practice would require the cooperation of nutritionists, industry representatives, and scientists. As well, estimates of the nutrient composition of commercially prepared foods can be obtained from industry data, as these foods are manufactured according to predetermined formulas. Thus, users would be ensured of the availability of a complete and reliable nutrient data set for Canada.

#### 6.3.2.1. Enrichment

The addition of certain nutrients to foods has been controlled in Canada for more than 25 years. In the late 1940s, regulations were established to define the amounts of vitamins and minerals that could be added to foods, and certain food standards, such as those for bread and flour, were modified to allow for the enrichment of these products. The addition of nutrients to certain foods served to correct a nutritional deficiency in some segments of the population (i.e., iodine added to table salt prevents goiter and vitamin D added to milk prevents rickets);

to replace nutrients removed from a staple food during manufacturing (i.e., addition of B-vitamins and iron to flour); and to ensure a reasonable nutritional quality in products sold as meal replacements or as substitutes for traditional foods (i.e., instant breakfast drinks and egg substitutes). Enrichment standards, namely the identification of foods that may be enriched, the nutrients that may be added, and the mandatory or optional nature of this enrichment are continually being revised to more closely meet the changing diet and nutritional needs of society. Thus, the revision of Canadian nutrient data must keep pace with policy changes.

6.3.2.2. Grading, trimming, and household wastage Comparison of the nutrient intake level for an average Canadian, as based on Apparent Per Capita Domestic Disappearance data and on Nutrition Canada Survey data, shows a fairly large discrepancy in macronutrient intake. As one data source measures food availability at the wholesale level and the other the actual intake, a significant portion of this discrepancy can be attributed to various losses along the food chain from the farm to the consumer. Most food composition tables publish several sets of nutrient values for each food in order to reflect various levels of trimming and grading, length of storage, and degree of processing. While this breakdown takes into account losses up to the retail level, any loss (due to plate waste or additional trimming in the home) or the addition or loss of nutrients (due to cooking) cannot be accounted for. Also, in some fruits and vegetables, there is a higher concentration of vitamins in the outer layers, so that the loss of nutrients is more than directly proportionate to the level of peeling.

The problem of adjusting nutrient values for wastage is amplified when consumption is measured from disappearance data. For example, beef is reported on a carcass basis in disappearance data. Trimming and bone removal may occur at either the meat packing plant or the retail outlet. Adjustments for this accumulated loss along the food chain should be made in the nutrient values. After purchase by the consumer, further trimming may also occur. Developing of a set of factors to account for household wastage is impractical.

#### 6.3.2.3. Weights and conversion factors

In 1962, the lastest revision was made to Agriculture Canada's Weights and Conversion Factors for Canadian Agricultural Products. While useful 15 years ago, this publication is currently outdated for use in converting food products from the farm to the retail level. Revision of this publication is under way. The revised edition will allow a more accurate application of U.S. nutrient values for Canadian products than is now possible.

### **6.3.2.4.** Nutrient composition of commercially prepared foods

Over the past five to ten years, the popularity of

commercially prepared foods has increased significantly, due to their convenience. Estimates of the nutrient composition of brand-name, commercially prepared foods are available from individual manufacturers. However, a weighted average of these nutrient values should be developed and compiled for similar foods. This compilation would enable an examination of the effect that increased food processing and changes in eating habits and lifestyles have on the health of Canadians.

<sup>&</sup>lt;sup>1</sup> Tankage refers to offal not suitable for consumption by humans or for use in pet foods.

<sup>&</sup>lt;sup>2</sup> The 1979 edition was not available when this study was begun.

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#### **APPENDIX A**

ACTUAL CONTRIBUTIONS BY MAJOR FOOD GROUPS TO TOTAL NUTRIENT INTAKE

Tab1es A.1 – A.13 — Disappearance Data

A.14 - A.27 — Survey Data

TABLE A.1. CONTRIBUTION BY MAJOR FOOD GROUPS TO FOOD ENERGY INTAKE: CALORIES PER DAY

Year	Cereals	Meat	Fats and Oils <sup>a</sup>	Sugars and Syrups	Dairy Products
			cal/day		
1960	696.8	481.6	469.9	480.0	401.6
1961	689.2	470.2	468.3	462.5	397.5
1962	679.2	471.7	483.2	486.1	386.4
1963	711.1	484.1	490.6	475.2	391.2
1964	657.6	506.1	491.8	512.5	389.0
1965	739.4	506.2	478.1	517.9	388.2
1966	679.9	505.0	527.6	524.3	392.2
1967	677.3	533.1	529.1	515.8	385.8
1968	675.3	538.2	539.8	525.2	385.0
1969	692.6	536.2	544.4	508.7	392.7
1970	689.6	534.1	538.9	526.2	367.1
1971	659.6	582.5	544.7	533.7	364.4
1972	691.2	569.1	561.0	534.9	368.4
1973	684.4	520.0	552.9	559.6	375.3
1974	692.7	532.7	569.2	480.1	378.8
1975	707.0	528.4	551.6	461.3	366.1

a Includes butter.

TABLE A.2. CONTRIBUTION BY MAJOR FOOD GROUPS TO FOOD ENERGY INTAKE: KILOJOULES PER DAY

Year	Cereals	Meat	Fats and Oils <sup>a</sup>	Sugars and Syrups	Dairy Products
			KJ/day		
1960	2881.0	1991.0	1943.0	1984.0	1660.0
1961	2849.0	1994.0	1936.0	1912.0	1643.0
1962	2808.0	1950.0	1998.0	2010.0	1597.0
1963	2940.0	2001.0	2028.0	1964.0	1617.0
1964	2719.0	2092.0	2033.0	2119.0	1608.0
1965	3057.0	2093.0	1976.0	2141.0	1605.0
1966	2811.0	2088.0	2181.0	2167.0	1621.0
1967	2800.0	2204.0	2187.0	2132.0	1595.0
1968	2792.0	2225.0	2232.0	2171.0	1592.0
1969	2863.0	2217.0	2251.0	2103.0	1623.0
1970	2851.0	2208.0	2228.0	2175.0	1518.0
1971	2727.0	2408.0	2252.0	2206.0	1506.0
1972	2857.0	2353.0	2319.0	2211.0	1523.0
1973	2829.0	2150.0	2286.0	2313.0	1551.0
1974	2864.0	2202.0	2353.0	1985.0	1566.0
1975	2923.0	2184.0	2280.0	1907.0	1513.0

<sup>&</sup>lt;sup>a</sup> Includes butter.

TABLE A.3. CONTRIBUTION BY MAJOR FOOD GROUPS TO PROTEIN INTAKE

Year	Meat	Dairy Prod- ucts	Cereals	Poultry	Fish	Nuts and Pulses
1 cai	Ivicat	ucts	Cercais	1 Outli y	1 1311	1 41505
			g/da	ıy		
1960	21.7	23.1	19.7	4.6	4.5	3.4
1961	21.1	23.3	19.6	5.2	4.2	3.4
1962	21.2	22.5	19.3	5.1	3.6	3.6
1963	21.7	23.0	20.1	5.5	4.5	3.4
1964	22.8	22.9	18.6	5.8	3.7	4.4
1965	23.1	22.7	20.8	6.1	3.9	3.8
1966	23.0	23.1	19.2	6.5	3.8	4.2
1967	23.9	22.6	19.1	6.8	3.6	3.9
1968	24.2	22.8	19.0	6.6	3.7	3.3
1969	24.2	23.7	19.5	7.2	3.8	3.3
1970	24.5	21.6	19.4	7.5	3.6	3.2
1971	24.9	21.2	18.5	7.4	3.5	4.0
1972	24.6	21.4	19.4	7.5	4.2	4.0
1973	24.5	22.0	19.1	7.8	3.6	3.3
1974	25.1	22.3	19.4	7.5	3.7	4.8
1975	25.8	21.7	19.8	7.0	3.7	5.3

TABLE A.4. CONTRIBUTION BY MAJOR FOOD GROUPS TO FAT INTAKE

Year	Fats and Oilsa	Meat	Dairy Products
		g/day	
1960	52.9	43.0	20.8
1961	52.7	42.1	20.1
1962	54.4	42.2	19.8
1963	55.3	43.4	19.7
1964	55.4	45.3	19.6
1965	53.9	45.1	19.7
1966	59.5	45.1	19.6
1967	59.6	47.7	19.6
1968	60.8	48.2	19.4
1969	61.4	48.0	19.4
1970	60.7	49.8	19.0
1971	61.4	52.8	19.1
1972	63.2	51.4	19.4
1973	62.3	46.0	19.9
1974	64.2	47.2	20.1
1975	62.2	46.3	19.3

<sup>&</sup>lt;sup>a</sup> Includes butter.

### TABLE A.5. CONTRIBUTION BY MAJOR FOOD GROUPS TO CARBOHYDRATE INTAKE

Year	Cereals	Sugars and Syrups
		g/day
1960	145.6	124.1
1961	144.0	119.6
1962	141.9	125.7
1963	148.6	122.9
1964	137.4	132.5
1965	154.6	134.0
1966	142.2	135.6
1967	141.6	133.4
1968	141.4	135.8
1969	145.0	131.6
1970	144.4	136.1
1971	138.2	138.0
1972	144.8	138.3
1973	143.6	144.7
1974	145.2	124.2
1975	148.1	119.3

TABLE A.6. CONTRIBUTION BY MAJOR FOOD GROUPS TO CALCIUM AND PHOSPHORUS INTAKES

	Calcium	]	Phosphorus	
Year	Dairy Products	Dairy Products	Meat	Cereals
		mg/d	lay	
1960	817.4	654.4	205.7	194.8
1961	821.2	659.4	201.7	193.3
1962	792.0	636.5	202.5	189.9
1963	808.6	652.6	206.6	198.6
1964	804.7	649.7	216.5	186.4
1965	797.9	647.0	219.2	205.7
1966	811.9	660.3	217.5	189.3
1967	790.6	641.8	227.0	188.8
1968	794.4	646.3	229.1	184.9
1969	823.7	671.1	227.2	187.7
1970	747.7	610.5	230.3	189.4
1971	733.4	602.1	242.1	181.2
1972	738.7	608.0	237.8	189.0
1973	752.8	618.6	236.6	183.2
1974	758.6	625.8	242.7	186.7
1975	737.3	609.0	248.4	190.5

TABLE A.7. CONTRIBUTION BY MAJOR FOOD GROUPS TO VITAMIN A INTAKE

Year	Fats and Oils <sup>a</sup>	Other Vegetables <sup>b</sup>	Dairy Products	Meat
		RE/d	lay	
1960	282.2	299.1	189.9	221.3
1961	287.3	258.5	183.8	208.2
1962	298.1	287.5	181.0	199.7
1963	301.2	261.8	180.0	187.5
1964	295.6	259.4	179.3	184.4
1965	288.6	252.8	180.1	172.1
1966	284.5	259.0	179.5	172.2
1967	275.6	268.0	180.1	185.2
1968	279.9	239.7	178.1	176.9
1969	276.0	253.4	178.5	181.4
1970	267.8	276.8	174.9	164.0
1971	269.3	264.8	176.1	207.9
1972	268.6	249.6	179.3	195.8
1973	258.3	256.8	183.9	172.2
1974	266.8	302.5	186.5	177.2
1975	265.4	317.1	179.4	170.0

<sup>&</sup>lt;sup>a</sup> Includes butter.

TABLE A.8. CONTRIBUTION BY MAJOR FOOD GROUPS TO IRON INTAKE

Year	Cereals	Meat	Fruit and Vegetables
		mg/day	
1960	5.0	3.3	2.9
1961	5.0	3.2	2.7
1962	4.9	3.2	2.8
1963	5.1	3.3	2.7
1964	4.8	3.4	2.7
1965	5.2	3.5	2.7
1966	4.9	3.5	2.7
1967	4.8	3.6	2.9
1968	4.8	3.6	2.8
1969	4.9	3.6	2.8
1970	4.9	3.6	2.8
1971	4.6	3.8	2.9
1972	4.8	3.8	2.8
1973	4.7	3.7	2.9
1974	4.8	3.8	3.0
1975	4.9	3.9	3.0

<sup>&</sup>lt;sup>a</sup> Includes tomatoes and tomato products, citrus and other fruit, other vegetables, and potatoes.

<sup>&</sup>lt;sup>b</sup> Includes tomatoes and tomato products.

TABLE A.9. CONTRIBUTION BY MAJOR FOOD GROUPS TO THIAMINE INTAKE

Year	Cereals	Meat	Dairy Products
		mg/day	
1960	0.70	0.38	0.24
1961	0.70	0.36	0.24
1962	0.69	0.36	0.23
1963	0.72	0.36	0.24
1964	0.67	0.38	0.24
1965	0.74	0.36	0.23
1966	0.69	0.35	0.24
1967	0.68	0.40	0.23
1968	0.67	0.39	0.23
1969	0.69	0.38	0.24
1970	0.69	0.42	0.22
1971	0.65	0.45	0.21
1972	0.68	0.41	0.21
1973	0.67	0.40	0.21
1974	0.68	0.41	0.22
1975	0.69	0.37	0.21

TABLE A.10. CONTRIBUTION BY MAJOR FOOD GROUPS TO RIBOFLAVIN INTAKE

Year	Dairy Products	Cereals	Meat
		mg/day	
1960	1.08	0.55	0.29
1961	1.09	0.55	0.28
1962	1.05	0.54	0.28
1963	1.08	0.57	0.28
1964	1.07	0.53	0.28
1965	1.06	0.58	0.28
1966	1.09	0.55	0.28
1967	1.05	0.53	0.30
1968	1.06	0.53	0.30
1969	1.10	0.54	0.30
1970	0.99	0.54	0.29
1971	0.97	0.51	0.31
1972	0.98	0.53	0.30
1973	0.98	0.52	0.29
1974	1.00	0.53	0.30
1975	0.97	0.54	0.30

TABLE A.11. CONTRIBUTION BY MAJOR FOOD GROUPS TO NIACIN INTAKE

Year	Meat	Cereals	Dairy Products	Poultry and Fish
		NE/	day	
1960	9.8	8.7	6.2	3.7
1961	9.6	8.6	6.3	3.9
1962	9.6	8.5	6.0	3.7
1963	9.8	8.9	6.2	4.1
1964	10.3	8.2	6.1	4.1
1965	10.4	9.1	6.1	4.2
1966	10.3	8.5	6.2	4.4
1967	10.7	8.3	6.0	4.4
1968	10.9	8.3	6.1	4.4
1969	10.8	8.5	6.3	4.7
1970	10.9	8.5	5.7	4.8
1971	11.3	8.0	5.6	4.8
1972	11.1	8.4	5.7	5.1
1973	11.1	8.3	5.8	5.0
1974	11.4	8.4	5.9	4.9
1975	11.7	8.6	5.7	4.7

TABLE A.12. CONTRIBUTION BY MAJOR FOOD GROUPS TO ASCORBIC ACID INTAKE

Year	Potatoes	Citrus Fruit	Other Vege- tables	Other Fruit	Tomatoes and Tomato Products
			mg/day		
1960	33.7	19.6	16.8	9.4	12.0
1961	29.8	18.7	19.9	8.8	11.7
1962	32.7	18.1	17.0	9.4	12.0
1963	30.4	14.8	18.5	10.3	10.3
1964	31.2	15.6	18.1	10.6	9.7
1965	27.8	15.9	18.3	10.1	10.5
1966	28.6	16.6	17.9	10.8	9.3
1967	35.0	18.7	18.3	10.8	10.5
1968	30.6	16.6	20.3	10.5	9.6
1969	34.3	19.1	19.1	10.9	7.4
1970	30.9	18.8	20.9	10.7	10.2
1971	32.6	19.4	19.8	11.2	10.1
1972	32.8	20.0	20.4	10.2	8.1
1973	31.1	21.1	21.7	11.0	9.3
1974	29.7	21.5	22.6	10.9	13.0
1975	31.2	23.6	24.3	12.5	11.7

TABLE A.13. CONTRIBUTION BY MAJOR FOOD GROUPS TO TOTAL FOLATE INTAKE

Year	Cereals	Meat, Poultry, Fish, and Eggs	Other Vegetables	Dairy Products	Potatoes	Fruit	Nuts and Pulses
				μ/day			
1960	44.6	44.6	26.8	27.9	22.1	15.4	12.9
1961	44.1	43.9	28.0	27.0	19.6	14.9	12.8
1962	43.4	43.5	27.2	26.2	21.4	14.9	13.1
1963	45.4	43.2	27.6	26.0	20.0	13.8	12.5
1964	42.3	43.4	26.8	25.9	20.5	14.4	15.8
1965	47.3	43.1	27.5	25.8	18.3	14.5	14.9
1966	43.4	42.5	27.2	25.7	18.7	14.7	18.7
1967	43.2	43.5	26.4	25.4	22.9	15.4	15.6
1968	42.7	43.7	28.4	24.9	20.1	14.8	13.5
1969	43.6	44.4	27.3	24.7	22.4	15.7	13.0
1970	43.7	44.9	28.7	23.8	20.3	15.4	12.2
1971	42.0	46.0	28.7	23.7	21.4	16.1	15.1
1972	43.9	45.1	27.9	24.0	21.5	16.0	16.7
1973	43.0	42.8	29.6	24.2	20.5	16.6	13.3
1974	43.6	42.8	31.1	24.0	19.6	17.0	19.5
1975	44.5	42.0	31.5	22.9	20.5	17.6	20.7

TABLE A.14. MAJOR COMMODITIES CONTRIBUTING TO FOOD ENERGY AVAILABILITY FROM FOOD PREPARED AT HOME: CALORIES PER DAY

Year and Income Group	Meat and Poultry	Bakery Products	Dairy Products <sup>a</sup>	Miscellaneous Groceries	Cereal Products	Fats and Oils
			cal/day			
1969 - All Families	515.7	428.9	378.1	212.0	181.0	152.7
1st Quintile	468.0	441.4	353.6	209.1	185.0	168.8
2nd Quintile	496.2	432.1	354.0	221.4	174.5	166.6
3rd Quintile	524.3	457.6	393.4	214.7	209.1	163.9
4th Quintile	548.3	439.7	393.2	222.1	181.2	150.4
5th Quintile	516.1	399.6	387.7	191.5	153.5	130.5
1974 - All Families	486.4	360.3	329.9	211.0	215.5	215.6
1st Quintile	485.7	377.3	340.1	251.6	252.2	220.5
2nd Quintile	463.5	362.2	326.8	226.7	225.4	224.9
3rd Quintile	452.7	357.2	324.7	209.6	219.2	234.1
4th Quintile	503.8	385.7	337.1	215.7	205.4	215.1
5th Quintile	505.0	340.8	325.5	185.5	194.3	199.2

<sup>&</sup>lt;sup>a</sup> Includes butter.

TABLE A.15. MAJOR COMMODITIES CONTRIBUTING TO FOOD ENERGY AVAILABILITY FROM FOOD PREPARED AT HOME: KILOJOULES PER DAY

Year and Income Group	Meat and Poultry	Bakery Products	Dairy Products <sup>a</sup>	Miscellaneous Groceries	Cereal Products	Fats and Oils
			kJ/day			
1969 - All Families	2132.0	1773.0	1563.0	876.0	748.0	631.0
1st Quintile	1935.0	1825.0	1462.0	864.0	765.0	698.0
2nd Ouintile	2051.0	1786.0	1463.0	915.0	721.0	689.0
3rd Quintile	2167.0	1892.0	1626.0	888.0	864.0	678.0
4th Quintile	2267.0	1818.0	1625.0	918.0	749.0	622.0
5th Quintile	2134.0	1652.0	1603.0	792.0	635.0	539.0
1974 – All Families	2011.0	1489.0	1364.0	872.0	891.0	891.0
1st Quintile	2008.0	1560.0	1406.0	1040.0	1043.0	912.0
2nd Quintile	1916.0	1497.0	1351.0	937.0	932.0	930.0
3rd Quintile	1871.0	1477.0	1342.0	866.0	906.0	968.0
4th Quintile	2083.0	1594.0	1394.0	892.0	849.0	889.0
5th Quintile	2088.0	1409.0	1346.0	767.0	803.0	823.0

<sup>&</sup>lt;sup>a</sup> Includes butter.

TABLE A.16. MAJOR COMMODITIES CONTRIBUTING TO PROTEIN AVAILABILITY FROM FOOD PREPARED AT HOME

Year and Income Group	Meat and Poultry	Dairy Products <sup>a</sup>	Bakery Products	Cereal Products	Eggs
		g/(	lay		
1969 - All Families	27.6	14.5	11.0	4.8	3.5
1st Quintile	25.3	13.8	11.1	5.1	3.8
2nd Quintile	26.9	13.4	11.1	4.7	3.3
3rd Quintile	28.0	15.1	11.9	5.6	3.7
4th Quintile	29.0	14.8	11.4	4.8	3.5
5th Quintile	27.5	15.0	10.2	4.0	3.2
1974 - All Families	27.3	13.9	9.4	5.6	3.3
1st Quintile	27.2	13.9	10.0	6.6	3.2
2nd Quintile	25.9	13.2	9.7	6.0	2.9
3rd Quintile	25.8	13.8	9.5	5.7	2.8
4th Quintile	28.1	14.4	9.6	5.2	2.9
5th Quintile	28.2	13.8	8.8	4.9	4.2

<sup>&</sup>lt;sup>a</sup> Includes butter.

#### TABLE A.17. MAJOR COMMODITIES CONTRIBUTING TO FAT AVAILABILITY FROM FOOD PREPARED AT HOME

Year and Income Group	Meat and Poultry	Dairy Prod- ucts <sup>a</sup>	Fats and Oils	Bakery Prod- ucts
		g/d	ay	
1969 - All Families	44.0	27.6	16.6	8.8
1st Ouintile	39.8	25.9	18.7	9.4
2nd Quintile	42.2	26.2	18.3	9.0
3rd Quintile	44.7	28.7	17.8	9.3
4th Quintile	47.0	28.8	16.3	8.9
5th Quintile	44.1	28.3	14.1	8.3
1974 - All Families	40.9	23.4	23.6	7.3
1st Quintile	40.9	24.9	24.3	7.4
2nd Quintile	39.0	23.8	24.8	7.1
3rd Quintile	37.8	22.8	25.6	7.0
4th Quintile	42.5	23.7	23.5	8.4
5th Quintile	42.5	23.2	21.7	7.0

<sup>&</sup>lt;sup>a</sup> Includes butter.

TABLE A.18. MAJOR COMMODITIES CONTRIBUTING TO CARBOHYDRATE AVAILABILITY FROM FOOD PREPARED AT HOME

Year and Income Group	Bakery Products	Miscella- neous Groceries	Cereal Products
		g/day	
1969 - All Families	76.0	49.3	37.3
1st Ouintile	77.9	48.6	38.2
2nd Quintile	76.5	51.7	35.9
3rd Quintile	81.3	49.5	43.1
4th Quintile	78.1	52.0	37.4
5th Quintile	70.7	44.0	31.6
1974 - All Families	63.5	49.2	44.8
1st Quintile	66.9	59.7	52.5
2nd Quintile	64.3	53.5	46.9
3rd Quintile	63.3	48.7	45.6
4th Quintile	66.9	50.0	42.7
5th Quintile	60.1	43.0	40.5

#### TABLE A.19. MAJOR COMMODITIES CONTRIBUTING TO CALCIUM AVAILABILITY FROM FOOD PREPARED AT HOME

Year and Income Group	Dairy Products <sup>a</sup>	Bakery Products
	mg/	day
1969 - All Families	490.9	147.7
1st Ouintile	457.1	146.9
2nd Quintile	456.1	148.1
3rd Quintile	514.4	160.1
4th Quintile	504.3	153.0
5th Quintile	504.4	137.0
1974 - All Families	462.0	122.3
1st Ouintile	258.5	129.0
2nd Quintile	440.6	126.7
3rd Quintile	463.5	123.8
4th Quintile	478.9	126.0
5th Quintile	453.2	115.1

<sup>&</sup>lt;sup>a</sup> Includes butter.

TABLE A.20. MAJOR COMMODITIES CONTRIBUTING TO PHOSPHORUS AVAILABILITY FROM FOOD PREPARED AT HOME

Year and Income Group	Dairy Products <sup>a</sup>	Meat and Poultry	Bakery Products	Cereal Products	Fresh Vegetables	Eggs
			mg/day			
1969 - All Families	395.8	271.5	139.0	77.5	73.5	51.3
1st Quintile	367.0	249.7	141.2	76.1	72.6	56.0
2nd Quintile	366.8	264.8	139.5	74.6	76.8	49.3
3rd Quintile	414.0	275.6	149.2	90.4	70.0	54.7
4th Quintile	405.4	282.8	142.3	76.4	73.3	52.5
5th Quintile	408.6	272.3	129.8	68.4	75.4	47.7
1974 - All Families	376.5	267.8	112.1	84.4	65.2	48.5
1st Quintile	373.5	268.3	116.0	97.7	74.9	47.7
2nd Quintile	359.0	255.4	112.0	87.5	71.9	43.0
3rd Quintile	376.7	254.5	110.5	86.6	58.7	42.0
4th Quintile	390.0	274.9	123.3	81.5	65.9	43.6
5th Quintile	370.9	276.5	104.6	77.0	62.7	63.0

<sup>&</sup>lt;sup>a</sup> Includes butter.

TABLE A.21. MAJOR COMMODITIES CONTRIBUTING TO VITAMIN A AVAILABILITY FROM FOOD PREPARED AT HOME

Year and Income Group	Meat and Poultry	Dairy Products <sup>a</sup>	Fresh Vegetables	Fats and Oils	Canned and Dried Vegetables	Eggs
			RE/day			
1969 - All Families	342.8	259.0	168.6	93.6	86.8	44.4
1st Quintile	372.5	242.1	189.0	109.0	94.6	48.5
2nd Quintile	354.6	244.0	165.0	124.0	84.8	42.7
3rd Quintile	362.4	268.4	148.0	96.0	83.3	47.4
4th Quintile	287.7	269.9	161.9	86.8	81.9	45.5
5th Quintile	352.0	266.6	166.9	73.2	93.4	41.3
1974 - All Families	304.2	222.6	162.1	126.2	74.8	42.1
1st Quintile	370.1	234.0	207.5	161.6	85.2	41.3
2nd Quintile	362.5	224.6	167.9	128.4	75.0	37.2
3rd Quintile	319.0	216.4	131.9	124.7	64.8	36.4
4th Quintile	246.3	225.3	168.5	131.7	77.5	37.8
5th Quintile	280.0	221.4	157.1	108.8	80.1	54.6

<sup>&</sup>lt;sup>a</sup> Includes butter.

## TABLE A.22. MAJOR COMMODITIES CONTRIBUTING TO IRON AVAILABILITY FROM FOOD PREPARED AT HOME

Year and Income Group	Meat and Poultry	Bakery Products	Cereal Products	
		mg/day		
1969 - All Families	4.3	2.9	1.7	
1st Quintile	3.9	3.0	1.6	
2nd Ouintile	4.2	3.0	1.7	
3rd Quintile	4.4	3.1	1.9	
4th Quintile	4.4	3.0	1.6	
5th Quintile	4.2	2.7	1.4	
1974 – All Families	4.4	2.5	1.8	
1st Quintile	4.3	2.6	1.9	
2nd Quintile	4.2	2.5	2.1	
3rd Quintile	4.2	2.5	1.8	
4th Quintile	4.5	2.5	1.8	
5th Quintile	4.5	2.3	1.6	

TABLE A.23. MAJOR COMMODITIES CONTRIBUTING TO THIAMINE AVAILABILITY FROM FOOD PREPARED AT HOME

Year and Income Group	Meat and Poultry	Bakery Prod- ucts	Cereal Prod- ucts	Fresh Vege- tables
	mg/day			
1969 - All Families	0.39	0.27	0.19	0.13
1st Quintile	0.35	0.27	0.19	0.13
2nd Quintile	0.39	0.27	0.17	0.14
3rd Quintile	0.38	0.30	0.21	0.12
4th Quintile	0.40	0.28	0.19	0.13
5th Quintile	0.39	0.25	0.17	0.13
1974 - All Families	0.38	0.24	0.21	0.11
1st Quintile	0.38	0.25	0.23	0.13
2nd Quintile	0.37	0.25	0.22	0.13
3rd Quintile	0.35	0.24	0.20	0.10
4th Quintile	0.39	0.25	0.21	0.11
5th Quintile	0.40	0.22	0.19	0.11

TABLE A.24. MAJOR COMMODITIES CONTRIBUTING TO RIBOFLAVIN AVAILABILITY FROM FOOD PREPARED AT HOME

Year and Income Group	Dairy Prod- ucts <sup>a</sup>	Meat and Poultry	Bakery Prod- ucts	Cereal Prod- ucts
		mg/	day	
1969 - All Families	0.62	0.38	0.22	0.22
1st Quintile	0.59	0.37	0.22	0.22
2nd Quintile	0.58	0.37	0.22	0.20
3rd Quintile	0.66	0.38	0.24	0.24
4th Quintile	0.65	0.37	0.22	0.23
5th Quintile	0.64	0.38	0.20	0.21
1974 - All Families	0.57	0.37	0.18	0.26
1st Quintile	0.56	0.41	0.19	0.27
2nd Quintile	0.54	0.38	0.19	0.26
3rd Quintile	0.58	0.38	0.18	0.25
4th Quintile	0.59	0.36	0.19	0.26
5th Quintile	0.56	0.36	0.17	0.25

<sup>&</sup>lt;sup>a</sup> Includes butter.

TABLE A.25. MAJOR COMMODITIES CONTRIBUTING TO NIACIN AVAILABILITY FROM FOOD PREPARED AT HOME

Year and Income Group	Meat and Poultry	Bakery Products	Dairy Products <sup>a</sup>	
		NE/day		
1969 - All Families	12.32	4.26	3.66	
1st Quintile	11.48	4.23	3.48	
2nd Quintile	12.05	4.28	3.40	
3rd Quintile	12.42	4.63	3.82	
4th Quintile	12.79	4.44	3.74	
5th Quintile	12.35	3.92	3.77	
1974 - All Families	11.95	3.70	3.50	
1st Quintile	12.24	3.94	3.49	
2nd Quintile	11.42	3.85	3.33	
3rd Quintile	11.43	3.75	3.50	
4th Quintile	12.08	3.82	3.63	
5th Quintile	12.27	3.45	3.44	

<sup>&</sup>lt;sup>a</sup> Includes butter.

#### TABLE A.26. MAJOR COMMODITIES CONTRIBUTING TO ASCORBIC ACID AVAILABILITY FROM FOOD PREPARED AT HOME

Year and Income Group	Fresh Vege- tables	Fresh Fruit	Canned and Dried Fruit
		mg/day	
1969 - All Families	33.7	24.2	8.8
1st Quintile	33.8	28.2	8.3
2nd Ouintile	34.8	22.7	7.5
3rd Quintile	31.8	22.3	8.7
4th Quintile	33.8	23.2	9.5
5th Quintile	34.9	24.9	9.8
1974 - All Families	30.4	19.9	8.6
1st Ouintile	34.8	23.0	8.0
2nd Quintile	33.0	22.5	7.6
3rd Quintile	26.8	18.3	9.0
4th Quintile	30.9	18.7	7.9
5th Quintile	29.9	19.8	9.5

## TABLE A.27. MAJOR COMMODITIES CONTRIBUTING TO FOLATE AVAILABILITY FROM FOOD PREPARED AT HOME

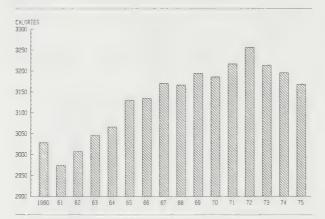
Year and Income Group	Bakery Prod- ucts	Fresh Vege- tables	Meat and Poultry	Fresh Fruit
		μ/(	day	
1969 - All Families	40.9	28.5	17.2	14.7
1st Quintile	40.8	28.5	16.9	17.0
2nd Ouintile	41.2	29.1	17.1	13.9
3rd Ouintile	44.4	26.4	17.5	14.0
4th Ouintile	42.6	28.1	16.7	14.6
5th Quintile	37.7	30.2	17.4	14.6
1974 - All Families	35.3	27.5	16.6	12.7
1st Ouintile	37.4	31.0	17.9	14.6
2nd Quintile	36.7	29.4	17.2	14.1
3rd Quintile	35.8	23.9	16.6	11.9
4th Quintile	36.3	27.8	15.7	12.2
5th Quintile	33.1	27.9	16.4	12.5

#### **APPENDIX B**

NUTRIENTS AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960-75: DISAPPEARANCE DATA

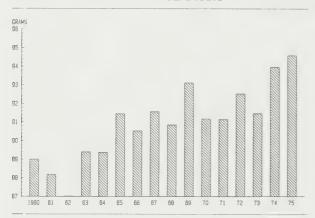
Figures B.1 - B.13

FIGURE B.1. FOOD ENERGY AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960-75: DISAPPEARANCE DATA



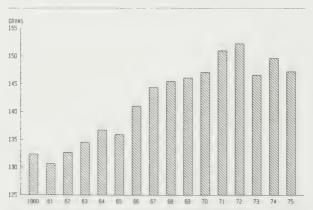
Source: Table 4.1.

FIGURE B.2. PROTEIN AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960–75: DISAPPEARANCE DATA



Source: Table 4.1.

FIGURE B.3. FAT AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960-75: DISAPPEARANCE DATA



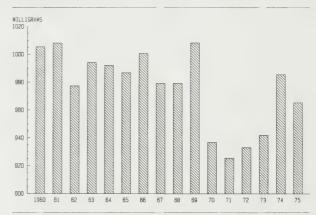
Source: Table 4.1.

FIGURE B.4. CARBOHYDRATES AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960-75: DISAPPEARANCE DATA



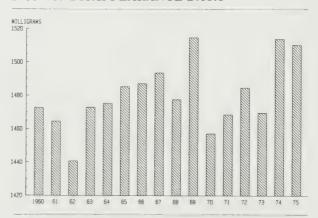
Source: Table 4.1.

FIGURE B.5. CALCIUM AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960–75: DISAPPEARANCE DATA



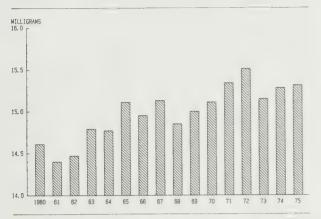
Source: Table 4.1.

FIGURE B.6. PHOSPHORUS AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960-75: DISAPPEARANCE DATA



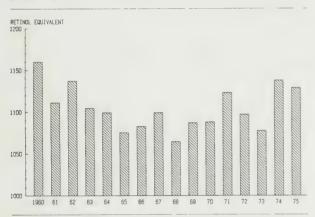
Source: Table 4.1.

# FIGURE B.7. IRON AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960-75: DISAPPEARANCE DATA



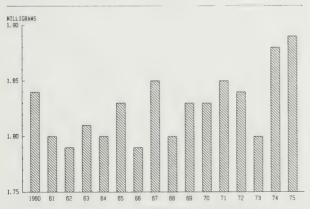
Source: Table 4.1.

### FIGURE B.8. VITAMIN A AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960–75: DISAPPEARANCE DATA



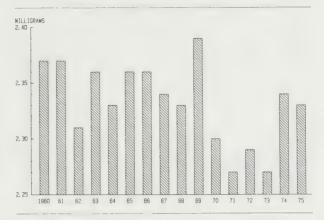
Source: Table 4.1.

### FIGURE B.9. THIAMINE AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960-75: DISAPPEARANCE DATA



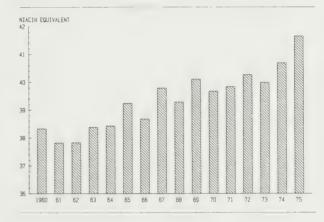
Source: Table 4.1.

FIGURE B.10. RIBOFLAVIN AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960-75: DISAPPEARANCE DATA



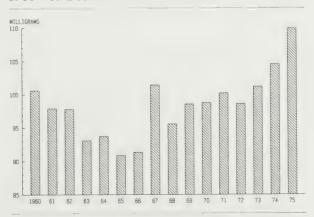
Source: Table 4.1.

### FIGURE B.11. NIACIN AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960–75: DISAPPEARANCE DATA



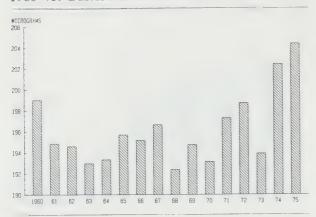
Source: Table 4.1.

### FIGURE B.12. ASCORBIC ACID AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960-75: DISAPPEARANCE DATA



Source: Table 4.1.

# FIGURE B.13. TOTAL FOLATE AVAILABLE FOR CONSUMPTION PER CAPITA PER DAY, 1960-75: DISAPPEARANCE DATA



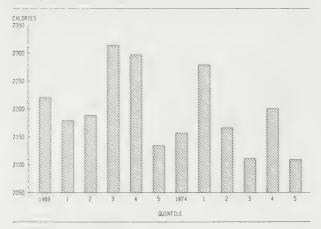
Source: Table 4.1.

### **APPENDIX C**

NUTRIENTS AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974

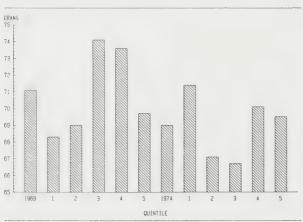
Figures C.1 - C.13

FIGURE C.1. FOOD ENERGY AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



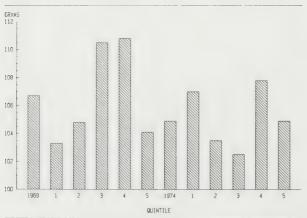
Source: Table 5.2.

FIGURE C.2. PROTEIN AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



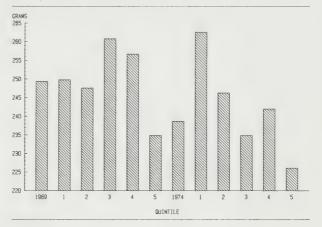
Source: Table 5.2.

FIGURE C.3. FAT AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



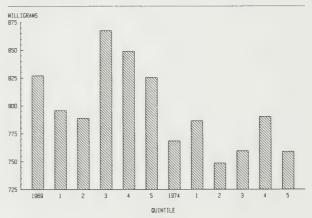
Source: Table 5.2.

FIGURE C.4. CARBOHYDRATES AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



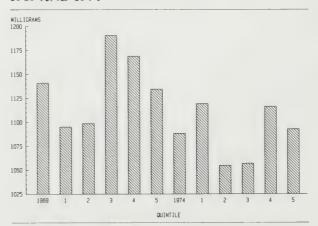
Source: Table 5.2.

FIGURE C.5. CALCIUM AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



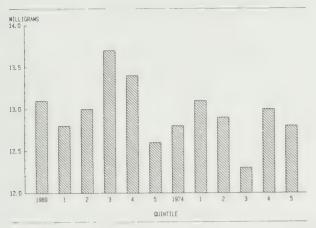
Source: Table 5.2.

FIGURE C.6. PHOSPHORUS AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



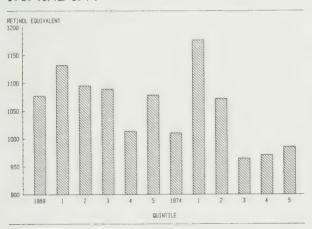
Source: Table 5.2.

#### FIGURE C.7. IRON AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



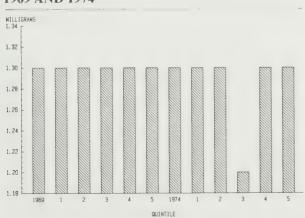
Source: Table 5.2.

#### FIGURE C.8. VITAMIN A AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



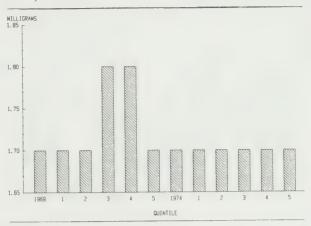
Source: Table 5.2.

#### FIGURE C.9. THIAMINE AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



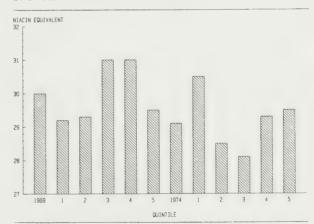
Source: Table 5.2.

FIGURE C.10. RIBOFLAVIN AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



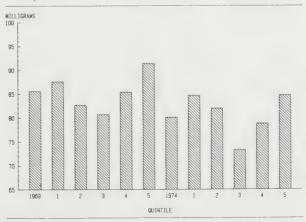
Source: Table 5.2.

### FIGURE C.11. NIACIN AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



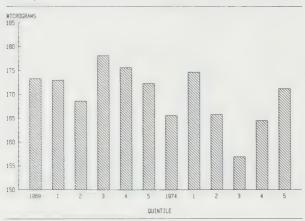
Source: Table 5.2.

# FIGURE C.12. ASCORBIC ACID AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



Source: Table 5.2.

## FIGURE C.13. TOTAL FOLATE AVAILABLE FROM FOOD PURCHASED PER CAPITA PER DAY, 1969 AND 1974



Source: Table 5.2.

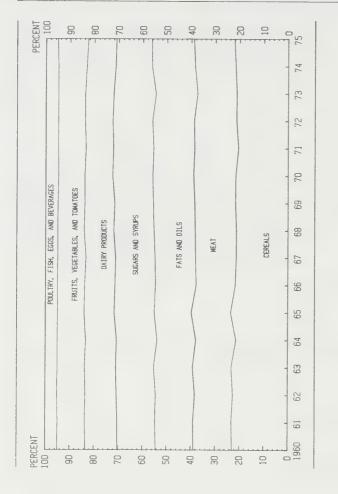
### **APPENDIX D**

PERCENTAGE CONTRIBUTIONS TO NUTRIENTS BY MAJOR FOOD GROUPS: DISAPPEARANCE DATA, 1960-75

Tables D.1 - D.13

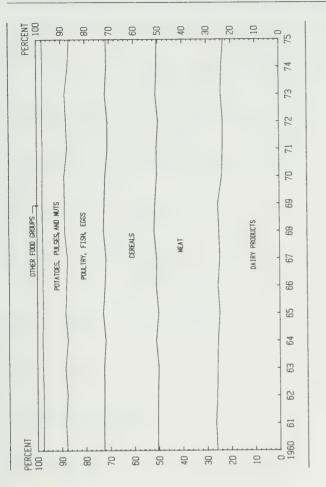
Figures D.1 - D.13

TABLE D.1. AND FIGURE D.1.
PERCENTAGE OF FOOD ENERGY CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



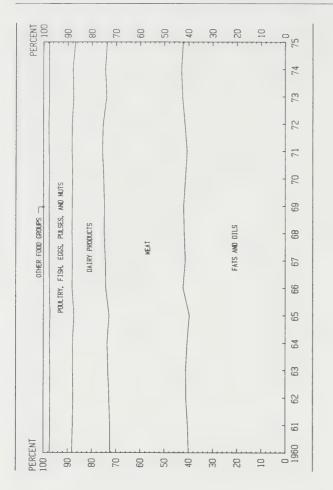
Food Group	1960	1961	1962	1963	1964	1965	9961	1961	1968	1969	1970	1971	1972	1973	1974	1975
Dairy Products	13.3	13.4	12.9	12.9	12.7	12.4	12.5	12.2	12.2	12.3	11.5	11.3	11.3	11.7	11.9	11.6
Fruit																
Citrus	0.7	9.0	9.0	0.5	0.5	0.5	9.0	9.0	9.0	9.0	9.0	9.0	0.7	0.7	0.7	× C
Other	2.7	2.7	2.8	2.9	2.9	2.9	2.8	2.7	2.7	2.7	2.6	27	25	96	7 7	7.0
Vegetables											,		ì		i	i
Potatoes	4.2	3.8	4.1	3.8	3.9	3.4	3.5	4.2	3.7	4.1	3.7	3.9	300	3.7	3.5	3.7
Other	1.3	1.4	1.3	1.3	1.3	1.3	1.3	1.2	1,3	1.2	1.3	1.3	1.2	-	13	4
Pulses and Nuts	2.2	2.2	2.4	2.2	2.7	2.4	2.6	2.4	2.1	2.1	2.1	2.4	2.5	2.3	5.9	3.4
Tomatoes and Tomato Products	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.0	9.0
Cereals	23.0	23.2	22.6	23.3	21.4	23.6	21.7	21.3	21.3	21.7	21.6	20.5	21.3	21.2	21.7	222
Meat, Poultry, Fish, and Eggs															1	1
Meat	15.9	15.8	15.7	15.9	16.5	16.2	16.1	16.8	17.0	16.8	17.4	18.1	17.5	16.2	16.7	16.7
Poultry	1.7	2.0	1.9	2.0	2.1	2.2	2.3	2.4	2.3	2.4	2.5	2.5	2.5	2.6	2.6	2.4
Fish	6.0	0.8	0.7	6.0	8.0	8.0	0.7	0.7	0.7	0.7	0.7	0.7	8.0	0.7	0.7	0.7
Eggs	2.0	2.0	1.9	1.8	8.1	1.7	1.7	1.7	1.7	1.7	8.1	1.7	1.6	9.1	1.6	1.5
Fats and Oils	15.5	15.7	16.1	1.91	16.0	15.3	8.91	16.7	17.0	17.1	16.9	16.9	17.2	17.2	17.8	17.4
Sugars and Syrups	15.8	15.6	16.2	15.6	16.7	16.5	16.7	16.3	9.91	15.9	16.5	16.6	16.4	17.4	15.0	14.6
Beverages	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0 3	0.3

TABLE D.2. AND FIGURE D.2.
PERCENTAGE OF PROTEIN CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



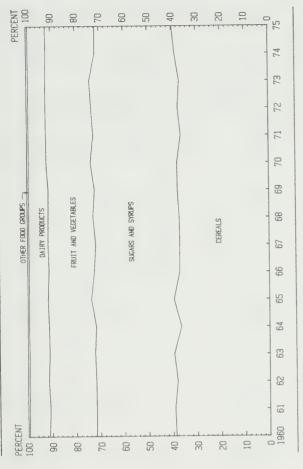
Food Group	1960	1961	1962	1963	1964	1965	9961	1967	1968	1969	1970	1971	1972	1973	1974	1975
Dairy Products	26.0	26.4	25.9	25.7	25.5	24.8	25.5	24.7	25.0	25.4	23.7	23.3	23.2	24.0	23.7	22.9
Fruit Citrus Other	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5
Vegetables Potatoes	4.0	3.5	3.9	3.6	3.7	3.2	3.3	4.0	3.5	3.8	3.5	3.7	3.7	3.6	3.3	3.5
Other Pulses and Nuts	3.9	3.00	4.1	3.7	4.9	4.2	4.6	4.2	3.6	3.5	3.5	4.4	4.3	3.6	5.1	5.6
Tomatoes and Tomato Products Cereals	0.7	0.7	0.8	0.7	0.6	0.7	0.6	0.7	0.6	0.5	0.6	20.2	0.5	20.9	20.7	0.7
Meat, Poultry, Fish, and Eggs Meat	24.4	24.0	24.4	24.3	25.5	25.2	25.4	26.0	26.7	25.9	26.8	27.3	26.7	26.9	26.7	27.3
Poultry	5.1	5.0	5.9	6.1	6.5	9.9	7.2	7.4	7.3	7.7	8.2	3.0	8.1	3.5	3.9	3.9
Fish	5.1	5.1	5.1	0.4	2. 4.	4.6	4.5	4.5	4.6	4.6	4.7	4.7	4.4	4.2	4.0	3.9
Fats and Oils	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
Beverages	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.3

TABLE D.3. AND FIGURE D.3
PERCENTAGE OF FAT CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



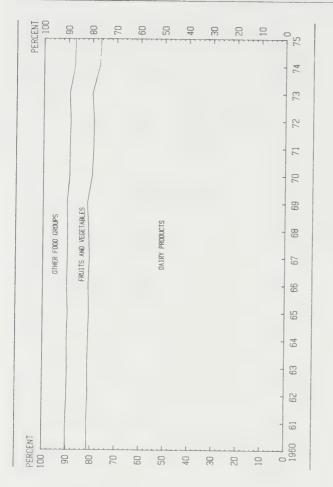
Food Group	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Dairy Products Fruit	15.7	15.4	14.9	14.6	14.3	14.5	13.9	13.6	13.3	13.3	12.9	12.6	12.8	13.6	13.4	13.1
Citrus	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Other	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3
Vegetables																
Potatoes	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Other	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2
Pulses and Nuts	2.8	2.6	3.0	2.6	2.8	3.1	2.8	3.0	2.9	2.8	2.7	2.8	3.0	3.4	3.3	4.4
Tomatoes and Tomato Products	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.0	0.1	0.1	0.1
Cereals	1.7	1.7	1.7	1.8	1.6	8.1	9.1	1.5	1.5	5.	1.5	4.1	4.1	1.4	1.4	1.5
Meat, Poultry, Fish, and Eggs																
Meat	32.5	32.2	31.8	32.2	33.1	33.2	32.0	33.1	33.1	32.8	33.8	35.0	33.8	31.4	31.5	31.5
Poultry	2.7	3.1	3.0	3.2	3.3	3.4	3.5	3.5	3.4	3.6	3.7	3.6	3.6	3.8	3.7	3.5
Fish	0.5	0.5	0.5	9.0	9.0	9.0	0.5	0.5	0.5	0.5	0.5	0.5	9.0	0.5	0.5	0.5
Eggs	3.2	3.2	3.1	2.9	2.9	∞. ∞.	2.6	2.6	2.6	2.7	2.7	2.6	2.5	2.4	2.3	2.3
Fats and Oils	40.0	40.3	41.0	41.1	40.5	39.6	42.2	41.3	41.8	42.0	41.3	40.6	41.5	42.5	42.9	42.2
Sugars and Syrups	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beverages	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2

TABLE D.4. AND FIGURE D.4
PERCENTAGE OF CARBOHYDRATES CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



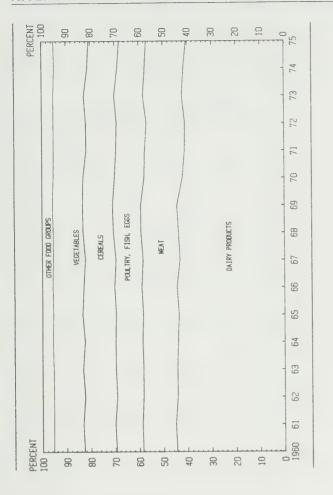
Food Group	1960	1961	1962	1963	1964	1965	9961	1961	1968	6961	1970	1971	1972	1973	1974	1975
Dairy Products	8.2	8.5	8.0	8.3	8.2	7.8	8.2	7.9	8.0	8.2	7.3	7.2	7.1	7.1	7.4	7.2
Fruit Citrus Other	1.3	1.3	1.2	1.0	1.1	1.0	1.1	1.3	1.1	1.3	1.3	1.3	1.4	1.4	1.5	1.6
Vegetables Potatoes Other Pulses and Nuts Tomatoes and Tomato Products Cereals	7.7 2.3 1.6 0.9 38.8	6.9 2.5 1.7 1.0 39.2	7.5 2.4 1.6 1.0 38.1	6.9 2.4 1.6 0.9 39.5	7.1 2.3 2.2 0.8 36.5	6.1 2.3 1.7 0.9 39.5	6.4 2.3 2.1 0.9 37.1	7.8 2.3 1.7 0.9 37.0	6.9 2.5 1.3 0.9 37.1	7.6 2.3 1.4 0.8 37.8	6.9 2.4 1.3 0.9 37.9	7.3 2.4 1.9 0.9 36.3	7.3 2.2 1.8 0.8 37.5	6.8 2.3 1.2 0.9 36.8	6.8 2.5 2.3 1.2 38.6	7.2 2.6 2.2 1.1 39.7
Meat, Poultry, Fish, and Eggs Meat Poultry Fish Eggs Fats and Oils Sugars and Syrups Beverages	0.0 0.0 0.0 0.1 0.0 33.0 0.5	0.0 0.0 0.1 0.1 32.5 0.6	0.0 0.0 0.1 0.0 33.7 0.5	0.0 0.0 0.1 0.1 32.7 0.6	0.0 0.0 0.1 0.1 35.2 0.5	0.0 0.0 0.0 0.1 0.0 34.2 0.5	0.0 0.0 0.0 0.1 0.0 35.4 0.5	0.0 0.0 0.0 0.1 0.0 34.8 0.5	0.0 0.0 0.0 0.1 0.0 35.7 0.6	0.0 0.0 0.0 0.1 0.0 34.3 0.5	0.0 0.0 0.1 0.1 35.8 0.6	0.0 0.0 0.0 0.1 0.0 36.2 0.6	0.0 0.0 0.0 0.1 0.0 35.8 0.6	0.0 0.0 0.0 0.1 0.0 37.2 0.6	0.0 0.0 0.0 0.1 0.0 33.1	0.0 0.0 0.0 0.1 0.0 31.9 0.6

TABLE D.5. AND FIGURE D.5
PERCENTAGE OF CALCIUM CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



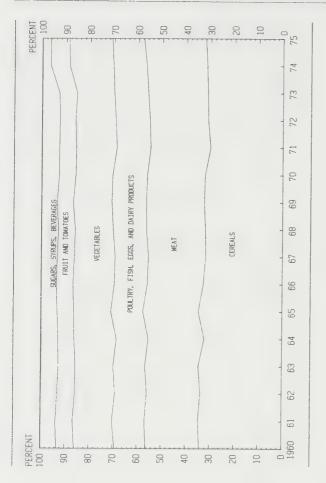
Food Group	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Dairy Products Fruit	81.3	81.5	81.1	81.3	81.1	80.8	81.1	80.7	81.1	81.7	79.8	79.3	79.2	79.9	77.0	76.4
Citrus	1.1	1.0	1.0	0.8	6.0	1.0	1.0	1.1	6.0		grane i		1.2	1.2	_	-
Other Vegetables	1.1	1.1	1.1	1.2	1.2	1.2	years o grand	1.2	1.2		1.2	1.3	1.2	1.2	1.2	1.2
Potatoes	1.2	1.0	1.2	1.1	1.1	1.0	1.0	1.3		1.2	1.2	1.0	1.0	1.0	-	1 2
Other	3.3	3.5	3.2	3.2	3.2	3.3	3.2	3.2	3.4	3.2	00	3.7	3.5	3.5	. ~	4.0
Pulses and Nuts	1.5	1.5	1.5	1.5	1.9	1.7	2.1		1.5	4.	4	6	2.0		0.0	5.0
Tomatoes and Tomato Products	0.7	9.0	0.7	9.0	0.5	9.0	0.5	9.0	9.0	0.4	9.0	9.0	0.5	9.0	i	7.0
Cereals	3.4	3.4	3.4	3.5	3.3	3.7	3.3	3.4	3.3		3.6	3.5	3.6	3.6	3.0	
Meat, Poultry, Fish, and Eggs									)	)		j		t.	0.0	
Meat	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.6	1.5	1.6	1.7	1.7	1.7	1.6	1.7
Poultry	0.4	0.4	0.5	0.5	0.5	0.5	9.0	9.0	9.0	9.0	0.7	0.7	0.7	0.7	0.7	0.6
Fish	0.5	0.5	0.5	9.0	9.0	0.5	9.0	0.5	0.5	0.5	9.0	9.0	0.8	0.7	9.0	9.0
Eggs	2.1	2.1	2.1	2.0	2.0	2.0	1.9	2.0	2.0	2.0	2.1	2.1	2.0	1.9	1.8	 
Fats and Oils	0.7	0.7	0.8	0.8	8.0	8.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Sugars and Syrups	9.0	0.5	0.7	0.7	9.0	9.0	0.7	9.0	0.7	0.5	0.7	0.7	8.0	0.7	3.3	3.3
Beverages	0.7	8.0	0.8	8.0	0.8	8.0	0.7	8.0	8.0	8.0	6.0	6.0	6.0	6.0	8.0	8.0

TABLE D.6. AND FIGURE D.6
PERCENTAGE OF PHOSPHORUS CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



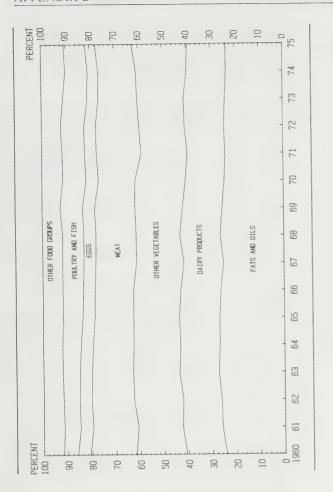
Food Group	0961	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Dairy Products	44.5	45.0	44.2	44.3	44.0	43.6	44.4	43.1	43.7	44.3	42.0	41.0	40.9	42.1	41.4	40.3
Fruit Citrus Other	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6
Vegetables Potatoes	6.1	4.5	0.9	5.5	5.6	5.0	5.1	6.2	3.1	6.0	5.6	5.9	5.8	5.6	3.2	5.5
Other Pulses and Nuts	0.00	7 °C	4.0	3.7	2 4	4.2	8.4	4.3	3.7	3.6	3.6	4.5	4.6	3.8	5.3	5.7
Tomatoes and Tomato Products Cereals	1.0	1.0	1.0	0.9	0.8	0.9	0.8	0.9	0.9	0.7	0.9	0.9	0.8	0.9	1.1	1.0
Meat, Poultry, Fish, and Eggs Meat	14.0	13.8	14.1	14.0	14.7	14.8	14.6	15.3	15.5	15.0	15.8	16.5	15.9	16.1	16.0	16.5
Poultry Eich	3.0	3.4	3.5	3.6	3.9	3.0	2.8	2.7	4.4	2.8	2.8	2.7	3.2	2.8	2.3	2.8
Eggs	4.6	4.6	4.6	4.3	4.3	4.2	4.1	4.1	4.2	4.2	4.4	4.3	4.1	3.9	3.7	3.7
Fats and Oils Sugars and Syrups	0.0	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.4	0.4

TABLE D.7. AND FIGURE D.7
PERCENTAGE OF IRON CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



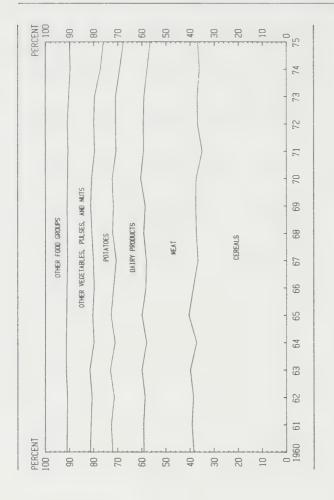
2.2 2.2 2.3 2.3 3.3 3.5 3.6 3.3 3.5 3.6 3.3 3.5 3.6 3.3 3.5 3.6 3.3 3.5 3.6 5.4 5.2 5.4 5.2 5.7 5.9 3.7 5.0 5.2 3.0 3.1.2 31.5 3.2 24.0 24.8 24.2 24.7 25.1 2 4.9 4.7 4.5 4.4 4.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	Food Group	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
1.2 1.1 1.1 0.9 0.9 0.9 1.0 1.1 1.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1	Dairy Products Fruit	2.3	2.4	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.2	2.2	2.2	2.3	2.3	2.2
sand Tomato Products  5.5  5.6  6.8  6.2  6.8  6.2  6.3  5.5  5.7  6.9  6.2  6.8  6.1  6.4  6.3  5.1  5.9  nd Nuts  5.9  6.2  6.8  6.2  6.3  5.5  5.2  5.2  5.2  5.6  5.3  5.5  5.4  5.2  5.7  5.9  nd Nuts  5.9  6.9  6.2  6.8  6.2  6.3  5.5  5.2  5.2  5.2  5.3  5.3  5.3  5	Citrus	1.2	proof	1.1	6.0	6.0	6.0	1.0	1.1	1.0	1.1	1.1	1.1	1.2	1.3	1.3	4.
6.9 6.2 6.8 6.2 6.3 5.5 5.7 6.9 6.2 6.8 6.1 6.4 6.3 6.1 5.8 5.5 5.4 5.2 5.2 5.2 5.2 5.6 5.3 5.5 5.4 5.2 5.7 5.9 5.9 5.2 5.2 5.2 5.2 5.2 5.6 5.3 5.5 5.4 5.2 5.7 5.9 5.9 5.2 5.2 5.2 5.2 5.6 5.3 5.5 5.4 5.2 5.7 5.9 5.9 5.2 5.4 2.0 2.3 2.3 2.3 2.3 2.3 3.6 6.4 5.3 34.1 34.6 32.2 22.2 22.1 23.2 23.7 24.4 24.0 24.0 24.0 24.8 24.2 24.7 25.1 1.3 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	Other Vegetables	3.5	3.4	3.5	3.6	3.6	3.5	3.6	3.5	3.6	3.6	3.5	3.6	3.3	3.5	3.6	3.7
5.3 5.4 5.3 5.2 5.2 5.2 5.2 5.2 5.6 5.3 5.5 5.4 5.2 5.7 5.9 4.5 4.7 6.2 4.8 3.9 3.9 3.7 5.0 5.2 3.6 6.4 4.5 4.7 6.2 4.8 3.9 3.9 3.7 5.0 5.2 3.6 6.4 5.3 34.1 34.6 33.7 34.6 32.2 2.4 2.3 2.5 2.4 2.0 2.3 2.3 2.3 2.0 2.5 3.0 31.5 31.5 31.5 32.3 22.2 22.2 22.1 23.2 23.0 23.2 23.7 24.4 24.0 24.0 24.8 24.2 24.7 25.1 1.3 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	Potatoes	6.9	6.2	8.9	6.2	6.3	5.5	5.7	6.9	6.2	8.9	6.1	6.4	6.3	6.1	00	6.1
4.5 4.7 4.5 4.3 6.0 4.7 6.2 4.8 3.9 3.9 3.7 5.0 5.2 3.6 6.4 5.4 5.2 2.4 2.3 2.3 2.3 2.3 2.3 3.6 6.4 5.4 5.4 5.4 5.2 2.4 2.3 2.5 2.4 2.0 2.3 2.3 2.3 2.0 2.5 3.0 5.2 3.0 5.2 3.0 5.2 3.0 5.2 3.0 5.1 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.2 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	Other	5.3	5.4	5.3	5.2	5.2	5.2	5.2	5.2	5.6	5.3	5.5	5.4	5.2	5.7	5.9	· ·
ts 2.7 2.6 2.8 2.5 2.2 2.4 2.3 2.5 2.4 2.0 2.3 2.3 2.3 2.0 2.5 3.0 31.5 31.5 31.5 34.1 34.6 33.7 34.6 32.2 34.7 32.7 31.8 32.0 32.5 32.2 30.0 31.0 31.2 31.5 31.5 32.3 22.2 22.2 22.1 23.2 23.0 23.2 23.7 24.4 24.0 24.0 24.8 24.2 24.7 25.1 3.9 4.5 4.5 4.7 4.9 5.1 5.6 5.7 5.6 5.9 6.1 6.0 6.0 6.3 6.1 1.2 1.3 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	Pulses and Nuts	4.5	4.7	4.5	4.3	0.9	4.7	6.2	4.8	3.9	3.9	3.7	5.0	5.2	3.6	6.4	0.5
34.1     34.6     33.7     34.6     32.2     34.7     32.7     31.8     32.0     32.5     32.2     30.0     31.0     31.2     31.5       22.3     22.2     22.1     23.2     23.2     23.7     24.4     24.0     24.0     24.8     24.7     25.1     31.5       3.9     4.5     4.5     4.7     4.9     5.1     5.6     5.7     5.6     5.9     6.1     6.0     6.3     6.1       1.3     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1     1.1       5.4     5.3     5.3     4.9     4.9     4.8     4.7     4.8     4.9     4.7     4.5     4.4     4.2       0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2     0.2       4.0     3.5     4.5     4.5     4.1     4.0     4.3     3.8     4.5     4.6 <td>Tomatoes and Tomato Products</td> <td>2.7</td> <td>2.6</td> <td>2.8</td> <td>2.5</td> <td>2.2</td> <td>2.4</td> <td>2.3</td> <td>2.5</td> <td>2.4</td> <td>2.0</td> <td>2.3</td> <td>2.3</td> <td>2.0</td> <td>2.5</td> <td>3.0</td> <td>2.6</td>	Tomatoes and Tomato Products	2.7	2.6	2.8	2.5	2.2	2.4	2.3	2.5	2.4	2.0	2.3	2.3	2.0	2.5	3.0	2.6
22.3 22.2 22.2 22.1 23.2 23.0 23.2 23.7 24.4 24.0 24.0 24.8 24.2 24.7 25.1 3.9 4.5 4.5 4.7 4.9 5.1 5.6 5.7 5.6 5.9 6.1 6.0 6.0 6.3 6.1 1.3 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	Cereals	34.1	34.6	33.7	34.6	32.2	34.7	32.7	31.8	32.0	32.5	32.2	30.0	31.0	31.2	315	32.1
22.3 22.2 22.1 23.2 23.0 23.2 23.7 24.4 24.0 24.8 24.2 24.7 25.1 25.1 3.9 4.5 4.5 4.7 4.9 5.1 5.6 5.7 5.6 5.9 6.1 6.0 6.0 6.3 6.1 1.2 1.3 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1	Meat, Poultry, Fish, and Eggs														1	0.10	1.10
3.9 4.5 4.5 4.7 4.9 5.1 5.6 5.7 5.6 5.9 6.1 6.0 6.0 6.3 6.1 1.3 1.3 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	Meat	22.3	22.2	22.2	22.1	23.2	23.0	23.2	23.7	24.4	24.0	24.0	24.8	24.2	24.7	25.1	25.7
Jis 5.4 5.3 5.3 4.9 4.9 4.8 4.7 4.8 4.9 4.9 4.9 4.7 4.8 4.9 4.9 4.7 4.5 4.4 4.2 Jis 0.2 0.2 0.2 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Poultry	3.9	4.5	4.5	4.7	4.9	5.1	5.6	5.7	5.6	5.9	6.1	0.9	0.9	6.3	6.1	5.7
Dils 0.2 0.2 0.2 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Fish	1.3	1.3	1.1	1.3		1.1	1.1	1.1	1.1	1.1	1.1		4.1		1.2	
Jils 0.2 0.2 0.2 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Eggs	5.4	5.3	5.3	4.9	4.9	4.8	4.7	4.7	4.8	4.9	4.9	4.7	4.5	4.4	4.2	4.2
d Syrups 4.0 3.5 4.2 4.5 4.5 4.1 4.0 4.0 4.3 3.8 4.5 4.6 4.6 4.3 0.9 2.4 2.6 2.5 2.6 2.5 2.6 2.5 2.6 2.7 2.8 2.5	Fats and Oils	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2.4 2.6 2.5 2.6 2.4 2.5 2.2 2.5 2.6 2.5 2.6 2.7 2.8 2.5	Sugars and Syrups	4.0	3.5	4.2	4.5	4.5	4.1	4.0	4.0	4.3	3.8	4.5	4.6	4.6	4.3	6.0	0.9
	Beverages	2.4	2.6	2.5	2.6	2.4	2.5	2.2	2.5	2.6	2.5	2.6	2.6	2.7	2.8	2.5	2.4

TABLE D.8. AND FIGURE D.8
PERCENTAGE OF VITAMIN A CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



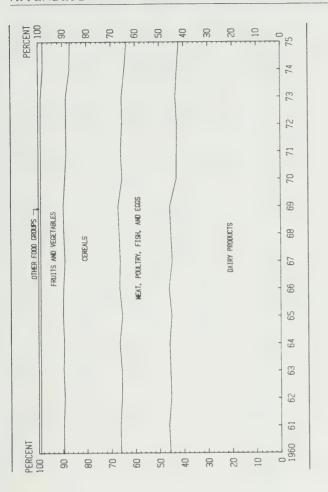
Food Group	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Dairy Products	16.4	16.5	15.9	16.3	16.3	16.7	16.6	16.4	16.7	16.4	16.1	15.7	16.3	17.1	16.4	15.9
Fruit Citrus Other	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.8
Vegetables Potatoes Other Pulses and Nuts Tomatoes and Tomato Products Cereals	0.4 21.0 0.1 4.8 0.2	0.4 18.4 0.1 4.9 0.3	0.4 20.4 0.1 4.9 0.2	0.4 19.2 0.1 4.5 0.3	0.4 19.4 0.2 4.1 0.4	0.4 18.9 0.1 4.7 0.5	0.4 19.6 0.1 4.3 0.5	0.3 19.7 0.1 4.6 0.6	0.3 18.1 0.1 4.5 0.6	0.3 19.7 0.1 3.6 0.6	0.4 20.9 0.1 4.6 0.6	0.4 19.1 0.1 4.4 0.6	0.4 18.9 0.1 3.8 0.7	0.5 19.3 0.1 4.5 0.8	0.6 21.0 0.1 5.6 0.8	0.5 23.1 0.1 5.0 0.7
Meat, Poultry, Fish, and Eggs Meat Poultry Fish Eggs Fats and Oils Sugars and Syrups Beverages	19.1 5.5 0.3 5.1 24.3 0.0	18.7 6.4 0.3 5.2 25.9 0.0 0.0	17.6 6.3 0.3 5.0 26.2 0.0	17.0 6.9 0.3 5.0 27.3 0.0	16.8 7.4 0.3 5.0 26.8 0.0	16.0 7.8 0.3 5.0 26.9 0.0	15.9 8.3 0.3 4.8 26.3 0.0	16.8 8.5 0.3 4.9 25.1 0.0	16.6 8.5 0.3 5.0 26.4 0.0	16.7 9.0 0.3 5.0 25.5 0.0	15.1 9.4 0.3 5.1 24.5 0.0	18.5 9.0 0.3 4.9 24.0 0.0	17.9 9.4 0.3 4.8 24.5 0.0	16.0 9.8 0.3 4.6 24.0 0.0	15.6 9.0 0.3 4.3 23.4 0.0	15.1 8.5 0.3 4.2 23.5 0.0 0.0

TABLE D.9. AND FIGURE D.9
PERCENTAGE OF THIAMINE CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



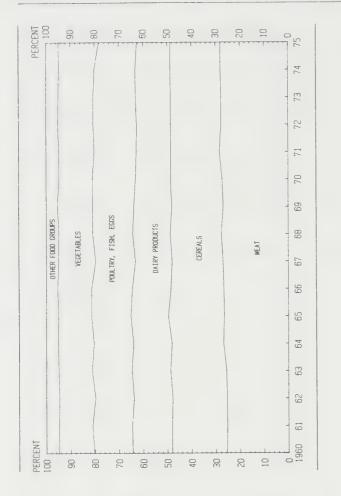
Pairy Products         13.0         13.4         12.8         13.1         12.8         13.4         12.5         12.9         13.2         11.8         11.4         11.5           Futit Citrus         Citrus         Other         1.8         1.7         1.4         1.5         1.5         1.6         1.7         1.8         1.7           Other Other         1.8         1.7         1.4         1.5         1.5         1.6         1.7         1.8         1.7         1.8         1.9           Vegetables Other         1.8         1.7         1.4         1.5         1.5         1.6         1.8         1.7         1.8         1.9           Other Other         3.4         3.7         3.6         3.5         3.6         3.9         3.0         3.9         3.0         3.9         3.0         3.9         3.0         3.9         3.0         3.9         3.0         3.0         3.9         3.0         3.9         3.0         3.9         3.0         3.9         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0         3.0	Food Group	1960	1961	1962	1963	1964	1965	9961	1961	1968	1969	1970	1971	1972	1973	1974	1975
s  1.8  1.7  1.7  1.4  1.5  1.5  1.6  1.7  1.6  1.8  1.7  1.8  1.8  1.8  1.9  1.9  1.9  1.9  1.9  2.0  2.0  1.9  2.0  2.0  2.0  1.9  2.0  2.0  3.4  3.7  3.4  3.6  3.5  3.6  3.6  3.9  3.6  3.9  3.6  Itry, Fish, and Eggs  20.7  20.1  20.1  20.1  20.8  19.5  19.7  21.4  21.8  21.0  23.0  24.3  1.9  1.9  1.2  1.2  1.3  1.3  1.5  1.5  1.5  1.6  1.6  1.6  0.5  0.5  0.5  0.6  0.0  0.0  0.0  0.0	Dairy Products	13.0	13.4	12.8	13.1	13.1	12.8	13.4	12.5	12.9	13.2	11.8	11.4	11.5	11.8	11.4	11.1
s s s s s s s s s s s s s s s s s s s	Fruit																
s 9.2 8.4 9.2 8.5 8.7 7.6 8.0 9.5 8.6 9.4 8.5 8.9 3.7 3.4 3.7 3.4 3.6 3.5 3.6 3.5 3.9 3.6 3.7 3.7 3.4 3.7 3.4 3.6 3.5 3.6 3.5 3.9 3.6 3.9 3.7 3.4 3.7 3.4 3.7 1.7 1.6 1.8 1.6 1.8 1.7 1.3 1.7 1.7 1.1 1.6 1.8 1.8 1.7 1.7 1.3 1.7 1.7 1.7 1.6 1.8 1.8 1.5 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	Citrus	8.1	1.7	1.7	4.1	1.5	1.5	1.6	1.7	1.6	8.1	1.7	1.8	1.9	2.0	2.0	2.2
8. 9.2 8.4 9.2 8.5 8.7 7.6 8.0 9.5 8.6 9.4 8.5 8.9 3.7 3.4 3.6 3.6 3.5 3.9 3.6 3.9 3.7 3.4 3.7 3.4 3.6 3.5 3.6 3.6 3.5 3.9 3.6 3.9 3.7 3.4 3.7 3.4 3.6 3.5 3.6 3.6 3.6 3.6 3.9 3.7 3.4 3.7 3.4 3.6 3.6 3.6 3.6 3.9 3.6 3.9 3.7 3.4 3.7 3.4 3.6 3.8 3.2 7.7 7.2 6.3 6.2 6.1 7.3 1.7 1.7 1.3 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7 1.7	Other	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	1.9	2.0	1.9	2.1	2.1	2.0
9.2 8.4 9.2 8.5 8.7 7.6 8.0 9.5 8.6 9.4 8.5 8.9 3.7 3.4 3.6 3.5 3.6 3.6 3.5 3.9 3.6 3.9 3.7 3.4 3.7 3.4 3.6 3.5 3.6 3.6 3.5 3.9 3.6 3.9 3.7 and Tomato Products  1.9 1.9 2.0 1.7 1.6 1.8 1.6 1.8 1.7 1.3 1.7 1.7 1.3 1.7 1.7 1.1 1.7 1.7 1.1 1.7 1.1 1.7 1.1 1.1	Vegetables																
3.4       3.7       3.4       3.7       3.4       3.5       3.6       3.5       3.9       3.6       3.9       3.7         and Tomato Products       6.3       6.2       6.8       6.2       8.0       7.2       7.7       7.2       6.3       6.2       6.1       7.3         and Tomato Products       1.9       1.9       2.0       1.7       1.6       1.8       1.7       1.3       1.7       1.7         and Tomato Products       1.9       1.9       2.0       1.7       1.6       1.8       1.6       1.8       1.7       1.7       1.7       1.7       1.7       1.7       1.7       1.7       1.7       1.7       1.7       1.7       1.7       1.7       1.6       1.8       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.6       1.7	Potatoes	9.2	8.4	9.2	8.5	8.7	7.6	8.0	9.5	9.8	9.4	8.5	8.9	0.6	8.7	8.0	8.3
and Tomato Products  1.9  1.9  1.9  2.0  1.7  1.6  1.8  1.6  1.8  1.7  1.3  1.7  1.3  1.7  1.3  1.7  1.7	Other	3.4	3.7	3.4	3.6	3.5	3.6	3.6	3.5	3.9	3.6	3.9	3.7	3.7	4.1	4.0	4.1
and Tomato Products 1.9 1.9 2.0 1.7 1.6 1.8 1.6 1.8 1.7 1.3 1.7 1.7 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.1 1.7 1.7	Pulses and Nuts	6.3	6.2	8.9	6.2	8.0	7.2	7.7	7.2	6.3	6.2	6.1	7.3	7.3	9.9	8.5	10.0
1try, Fish, and Eggs  20.7 20.1 20.1 20.1 20.2 19.7 21.4 21.8 21.0 23.0 24.3  1.0 1.2 1.2 1.2 1.3 1.3 1.5 1.5 1.5 1.6 1.6 1.6  0.5 0.5 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Tomatoes and Tomato Products	1.9	1.9	2.0	1.7	1.6	8.1	1.6	8.	1.7	1.3	1.7	1.7	1.4	1.7	2.1	1.9
ltry, Fish, and Eggs  20.7 20.1 20.1 20.1 20.8 19.5 19.7 21.4 21.8 21.0 23.0 24.3  1.0 1.2 1.2 1.2 1.3 1.3 1.5 1.5 1.5 1.6 1.6 1.6  0.5 0.5 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5  1.8 1.8 1.8 1.7 1.7 1.7 1.7 1.6 1.7 1.7 1.7  Dils  d Syrups  0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Cereals	38.4	39.1	38.5	39.8	37.2	40.4	38.6	36.7	37.4	37.6	37.5	35.0	36.9	37.0	36.1	36.8
20.7 20.1 20.1 20.1 20.8 19.5 19.7 21.4 21.8 21.0 23.0 24.3 1.0 1.2 1.2 1.2 1.3 1.3 1.5 1.5 1.5 1.5 1.6 1.6 1.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Meat, Poultry, Fish, and Eggs																
1.0 1.2 1.2 1.3 1.3 1.5 1.5 1.5 1.6 1.6 1.6 1.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Meat	20.7	20.1	20.1	20.1	20.8	19.5	19.7	21.4	21.8	21.0	23.0	24.3	22.5	22.1	21.7	19.7
0.5 0.5 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Poultry	1.0	1.2	1.2	1.2	1.3	1.3	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.6	1.5
Dils 0.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Fish	0.5	0.5	0.5	9.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.5	0.5
Dils     0.1     0.1     0.1     0.1     0.1     0.1     0.0     0.0     0.0       d Syrups     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0     0.0       0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1     0.1	Eggs	8	8.1	<u>~</u>	1.7	1.7	1.7	1.7	9.1	1.7	1.7	1.7	1.7	1.6	9.1	1.5	1.4
d Syrups 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Fats and Oils	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Sugars and Syrups	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
	Beverages	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE D.10. AND FIGURE D.10
PERCENTAGE OF RIBOFLAVIN CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



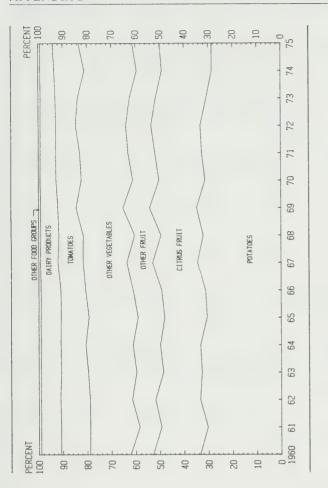
45.3       45.6       45.9       45.0       46.1       44.8         0.5       0.4       0.4       0.5       0.5       0.5         1.5       1.5       1.5       1.5       1.5       1.5         2.9       2.6       2.7       2.4       2.5       3.1         2.7       2.8       2.7       2.7       2.7       2.7         1.2       1.1       1.6       1.3       1.4       1.3         1.0       0.9       0.8       0.9       0.8       0.9         23.6       24.0       22.9       24.4       23.2       22.8       2         12.0       11.7       12.2       12.0       11.9       12.7		7	4								
ss 1.4 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5					45.7 4	43.0 4	42.8 4	42.7	43.3	42.6	41.8
es 1.4 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5					0.5	0.5	0.5	9.0	9.0	9.0	9.0
ss ss 2.9 2.6 2.9 2.6 2.7 2.4 2.5 3.1 and Nuts and Tomato Products 1.2 1.2 1.2 1.3 1.4 1.3 sand Tomato Products 23.4 23.4 23.6 24.0 22.9 24.4 23.2 22.8 3.1 ultry, Fish, and Eggs 12.0 11.8 12.0 11.7 12.2 12.0 11.9 12.7								1.6	9.1	1.6	1.7
s 2.9 2.6 2.9 2.6 2.7 2.4 2.5 3.1 2.5 2.7 2.4 2.5 3.1 2.5 2.7 2.7 2.8 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7								(	(		1
nd Nuts								2.9	7.8	7.6	7.7
nd Nuts s and Tomato Products 1.2 1.2 1.2 1.2 1.1 1.6 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.4 1.3 1.0 1.0 1.0 0.9 0.8 0.9 0.8 0.9 0.9 0.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0								3.2	3.4	3.5	3.6
s and Tomato Products 1.0 1.0 1.0 0.9 0.8 0.9 0.8 0.9 0.9 0.9 0.9 o.1					1.0		1.5	4.1		1.7	1.7
ultry, Fish, and Eggs 12.9 24.4 23.2 22.8 24.0 22.9 24.4 23.2 22.8 201 11.9 12.7 12.0 11.9 12.7								8.0	6.0		1.0
ultry, Fish, and Eggs 12.0 11.8 12.0 11.7 12.2 12.0 11.9 12.7								23.1	23.0	22.6	23.3
12.2 11.8 12.0 11.7 12.2 12.0 11.9 12.7											
								3.2	12.8	12.8	12.9
2.4 2.6 2.7 2.8 3.0 3.1 3.3 3.5								4.1	4.3	4.0	3.8
1.1 0.9 0.9 0.9 0.9								1.0	6.0	6.0	6.0
4.8 4.7 4.8 4.5 4.5 4.4 4.3 4.4								4.4	4.2	4.0	4.0
nd Oils 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3				0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2
vrups 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.								0.0	0.0	1.1	1.2
9.0 9.0 9.0 9.0 0.0 9.0 9.0 9.0								0.7	8.0	0.7	9.0

TABLE D.11. AND FIGURE D.11
PERCENTAGE OF NIACIN CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



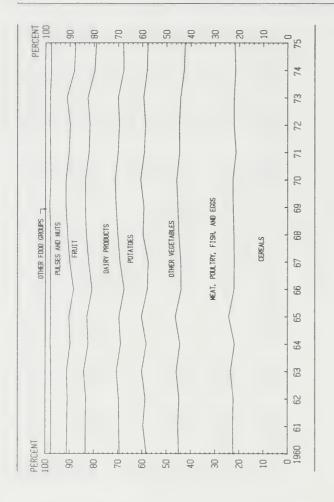
Food Group	1960	1961	1962	1963	1964	1965	1966	1961	1968	1969	1970	1971	1972	1973	1974	1975
Dairy Products	16.3	16.5	16.0	16.0	15.9	15.5	16.0	15.2	15.5	15.7	14.5	14.2	14.1	14.5	14.5	13.8
Fruit Citrus Other	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4
Vegetables Potatoes	7.9	7.1	7.7	7.1	7.3	6.3	9.9	7.9	7.0	7.7	7.0	7.3	7.3	7.0	6.5	6.7
Other Pulses and Nuts	7.7	4.6	5.3	4.7	5.6	5.5	5.5	5.5	5.0	8.4	. 8.	5.4	5.3	5.3	6.1	7.7
Tomatoes and Tomato Products Cereals	1.3	1.3	1.4	1.2	1.1	1.2	1.1	1.2	1.1	0.9	21.3	1.2	1.0	1.1	1.4	1.3
Meat, Poultry, Fish, and Eggs	25.5	25.3	25.4	25.6	26.8	26.5	26.7	27.0	27.7	26.9	27.3	28.4	27.7	27.7	27.9	28.0
Poultry	5.6	6.4	6.4	9.9	7.1	7.2	7.8	7.0	7.8	8.3	∞ ∞	9.8	00.7	9.1	9.8	7.9
Fish	4.1	3.9	3.4	4.1	3.5	3.5	3.6	3.3	3.3	3.4	3.4	3.3	4.0	3.4	3.5	 
T Soon	6.1	6.1	6.1	5.7	5.7	5.5	5.4	5.3	5.4	5.4	5.6	5.5	5.2	5.0	4.0	4.6
Fats and Oils	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sugars and Syrups	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	J.0
Beverages	2.4	2.6	2.7	2.6	2.5	2.5	2.3	5.6	2.7	2.5	2.7	2.5	2.5	9.7	C.7	7.2

TABLE D.12. AND FIGURE D.12
PERCENTAGE OF ASCORBIC ACID CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



Food Group	1960	1961	1962	1963	1964	1965	1966	1961	1968	6961	1970	1971	1972	1973	1974	1975
Dairy Products	8.2	8.2	8.0	8.4	8.2	8.3	8.2	7.2	7.5	7.1	9.9	6.3	6.4	6.1	5.8	5.2
Fruit Citrus Other	19.4	19.1	18.5	15.9	16.6	17.5	18.1	18.5	17.4	19.4	19.0	19.3	20.3	20.9	20.6	21.5
Vegetables Potatoes	33.5	30.3	33.4	32.7	33.3	30.6	31.2	34.5	32.1	34.8	31.3	32.6	33.2	30.7	28.4	28.4
Other Pulses and Nuts	0.2	20.4	0.2	0.2	0.2	20.7	0.5	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2
Tomatoes and Tomato Products	11.9	12.0	12.2	11.1	10.3	11.5	10.2	10.4	10.0	7.5	10.4	10.0	8.2	9.2	12.4	10.7
Cereals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meat, Poultry, Fish, and Eggs Meat	9.0	9.0	9.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	9.0	0.5	0.5	0.5	0.4
Poultry	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TIS I	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2
2 9 9 9 E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fats and Oils	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sugars and Syrups	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beverages	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TABLE D.13. AND FIGURE D.13
PERCENTAGE OF TOTAL FOLATE CONTRIBUTED BY
MAJOR FOOD GROUPS: DISAPPEARANCE DATA



Food Group	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975
Dairy Products	14.0	13.8	13.5	13.5	13.4	13.2	13.2	12.9	13.0	12.7	12.3	12.0	12.1	12.5	11.9	11.2
Fruit Citrus	3.7	3.5	3.4	2.8	3.1	3.1	3.3	3.6	3.2	3.6	3.6	3.7	3.8	4.0	3.9	4.3
Other	4.1	4.1	4.2	4.3	4.3	4.3	4.3	4.2	4.5	4.4	4.4	4.5	4.3	4.6	4.5	4.3
Vegetables																
Potatoes	11.1	10.0	11.0	10.4	10.6	9.3	9.6	11.7	10.4	11.5	10.5	10.8	10.8	10.5	7.6	10.1
Other	13.4	14.4	14.0	14.3	13.9	14.0	14.0	13.4	14.8	14.0	14.9	14.6	14.0	15.3	15.3	15.4
Pulses and Nuts	6.5	9.9	8.9	6.5	8.2	7.6	9.6	7.9	7.0	6.7	6.3	7.7	8.4	6.9	9.6	10.1
Tomatoes and Tomato Products	2.0	2.1	2.1	2.0	1.8	1.9	1.8	1.9	1.9	1.5	1.9	1.8	1.6	1.8	2.2	2.1
Cereals	22.5	22.6	22.3	23.5	21.9	24.3	22.1	22.0	22.2	22.5	22.6	21.3	22.1	22.1	21.5	21.8
Meat, Poultry, Fish, and Eggs																
Meat	7.6	7.5	7.4	7.5	7.7	7.5	7.5	7.9	8.0	7.9	8.1	8.7	8.3	8.1	8.0	7.8
Poultry	1.0	1.2	1.2	1.3	1.4	1.4	1.5	1.5	1.5	1.6	1.7	1.7	1.7	1.8	1.7	1.5
Fish	1.5	1.5	1.5	 0	1.6	9.1	1.6	1.4	1.6	1.6	1.5	1.4	1.6	1.5	1.5	1.5
Eggs	12.3	12.4	12.3	11.8	11.8	11.5	11.2	11.3	11.6	11.7	11.9	11.5	11.0	10.7	10.0	9.7
Fats and Oils	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
Sugars and Syrups	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beverages	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

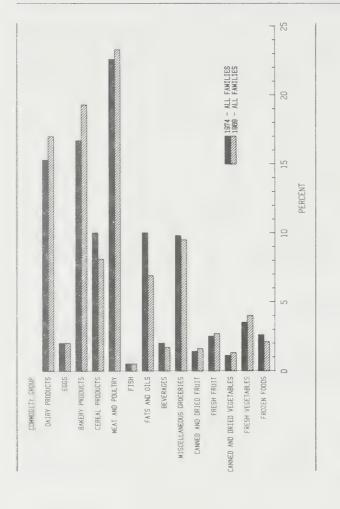
### APPENDIX E

PERCENTAGE CONTRIBUTIONS TO NUTRIENTS BY ALL COMMODITIES: SURVEY DATA, 1969 AND 1974

Tables E.1 - E.13

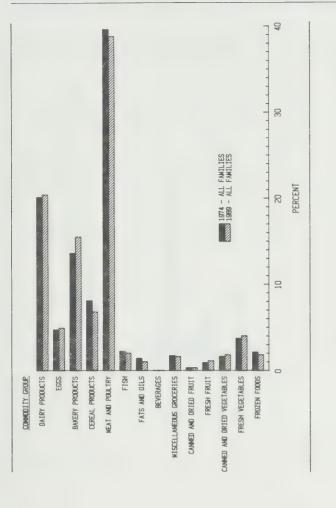
Figures E.1 – E.13

TABLE E.I. AND FIGURE E.I PERCENTAGE OF FOOD ENERGY CONTRIBUTED BY ALL COMMODITY GROUPS: SURVEY DATA



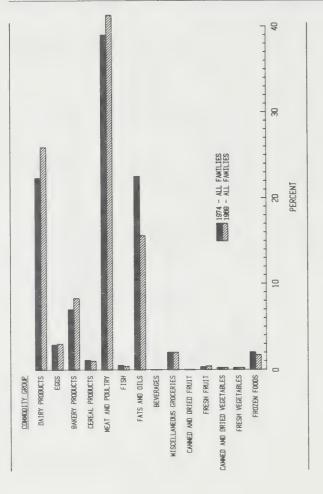
Commodity Group         All         Quintile         2nd         3rd         4th         5th           Dairy Products         17.0         16.2         16.2         17.0         17.1         18.2           Eggs         2.0         2.2         2.0         2.1         2.0         2.0           Bakery Products         2.0         2.2         2.0         2.1         2.0         2.0           Cereal Products         8.1         8.5         8.0         9.0         7.9         7.2           Meat and Poultry         23.3         21.5         22.7         22.6         24.0         24.2           Fish         6.9         7.7         7.6         7.1         6.5         6.1           Beverages         1.7         1.7         1.7         1.8         1.7         1.8           Miscellaneous Groceries         9.5         9.6         10.1         9.3         9.7         9.0           Miscellaneous Groceries         9.5         9.6         10.1         1.4         1.7         1.8           Fresh Fruit         2.7         3.2         2.5         2.8         2.7           Ganned and Dried Vegetables         1.3         3.7					1969						1974		
tucts 17.0 16.2 16.2 17.0 17.1 2.0 2.2 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.0 2.1 2.1 2.0 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1	dno.		1st Duintile	2nd Ouintile	3rd Ouintile	4th Ouintile	5th Ouintile	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile
ucts         17.0         16.2         16.2         17.0         17.1           ducts         2.0         2.2         2.0         2.1         2.0           ducts         8.1         8.5         8.0         9.0         7.9           Poultry         23.3         21.5         22.7         22.6         24.0           Foultry         0.5         0.4         0.4         0.5         0.4           fils         1.7         1.7         1.7         1.7         0.4           ous Groceries         9.5         9.6         10.1         9.3         9.7           d Dried Fruit         1.6         1.7         1.4         1.6         1.6           t Dried Vegetables         1.3         1.3         1.3         1.3         1.3           stables         4.0         4.0         4.4         3.7         3.9							0 0 1	200	OFF	1 5 1	1 5 4	16.3	15.4
2.0     2.2     2.0     2.1     2.0       ducts     8.1     8.5     8.0     9.0     7.9       ducts     8.1     8.5     8.0     9.0     7.9       Poultry     23.3     21.5     22.7     22.6     24.0       Poultry     0.5     0.4     0.4     0.5     0.4       ils     6.9     7.7     7.6     7.1     6.5       ous Groceries     9.5     9.6     10.1     9.3     9.7       d Dried Fruit     1.6     1.7     1.4     1.6       t     2.7     3.2     2.6     2.5     2.8       d Dried Vegetables     1.3     1.3     1.3     1.3     3.9       stables     4.0     4.0     4.4     3.7     3.9		0./	7.91	7.91	0./1	1./1	7.81	15.3	14.9	1.5.1	15.4	13.3	15.4
ducts 19.3 20.3 19.7 19.8 19.1 ducts 8.1 8.5 8.0 9.0 7.9 Poultry 0.5 0.4 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.6 10.1 0.1 0.3 0.5 0.6 10.1 0.3 0.5 0.6 10.1 0.3 0.5 0.6 10.1 0.3 0.5 0.5 0.6 10.1 0.3 0.5 0.5 0.6 10.1 0.3 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		2.0	2.2	2.0	2.1	2.0	2.0	2.0	1.8	1.7	1.7	1.7	2.6
ducts 8.1 8.5 8.0 9.0 7.9  Poultry 23.3 21.5 22.7 22.6 24.0  0.5 0.4 0.4 0.5 0.4  ils 6.9 7.7 7.6 7.1 6.5  ous Groceries 9.5 9.6 10.1 9.3 9.7  d Dried Fruit 1.6 1.7 1.4 1.4 1.6  t 2.7 3.2 2.6 2.5 2.8  d Dried Vegetables 1.3 1.3 1.3 3.9		9.3	20.3	19.7	19.8	19.1	18.7	16.7	16.6	16.7	17.0	17.6	16.2
Poultry 23.3 21.5 22.7 22.6 24.0 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.6 0.7 7.7 7.6 7.1 6.5 0.5 0.5 0.5 0.6 10.1 0.1 0.3 0.7 0.5 0.6 10.1 0.1 0.3 0.7 0.5 0.6 0.5 0.6 0.5 0.5 0.6 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		8.1	8.5	8.0	0.6	7.9	7.2	10.0	11.1	10.4	10.4	9.3	9.2
ils 6.9 7.7 7.6 7.1 6.5 0.4 0.4 0.5 0.4 0.4 0.5 0.4 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.4 0.5 0.5 0.4 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		3.3	21.5	22.7	22.6	24.0	24.2	22.6	21.3	21.4	21.5	23.0	24.1
hils 6.9 7.7 7.6 7.1 6.5 ous Groceries 9.5 9.6 10.1 9.3 9.7 d Dried Fruit 2.7 3.2 2.6 2.5 2.8 d Dried Vegetables 1.3 1.3 1.3 1.3 3.9 d Dried Vegetables 1.4 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4		0.5	0.4	0.4	0.5	0.4	0.5	0.5	8.0	0.4	0.5	0.4	0.5
ous Groceries 9.5 9.6 10.1 9.3 9.7 1.6 1.7 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8 1.8		6.9	7.7	7.6	7.1	6.5	6.1	10.0	9.7	10.4	11.1	8.6	9.4
ous Groceries 9.5 9.6 10.1 9.3 9.7 d Dried Fruit 1.6 1.7 1.4 1.4 1.6 t 2.7 3.2 2.6 2.5 2.8 d Dried Vegetables 1.3 1.3 1.3 1.3 1.3		1.7	1.7	1.7	1.8	1.7	1.8	2.0	1.7	2.0	2.0	2.0	2.1
1.6 1.7 1.4 1.4 1.6 2.7 3.2 2.6 2.5 2.8 1.3 1.3 1.3 1.3 1.3 3.9 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0		9.5	9.6	10.1	9.3	9.7	0.6	8.6	11.0	10.5	6.6	8.6	∞ ∞
2.7 3.2 2.6 2.5 2.8 1.3 1.3 1.3 1.3 1.3 1.2 4.0 4.0 4.4 3.7 3.9		1.6	1.7	1.4	1.4	1.6	1.7	1.4	1.5	1.4	1.4	1.3	1.6
1.3 1.3 1.3 1.2 40 40 44 37 39		2.7	3.2	2.6	2.5	2.8	2.7	2.5	2.9	2.7	2.3	2.4	2.5
40 40 44 37 39	ried Vegetables	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.0	1.1	6.0	1.1	1.1
	les	4.0	4.0	4.4	3.7	3.9	4.3	3.5	3.9	4.0	3.3	3.5	3.4
1.9 2.1		2.1	1.7	1.9	1.9	2.1	2.4	2.6	1.8	2.2	2.6	2.8	3.1

TABLE E.2. AND FIGURE E.2 PERCENTAGE OF PROTEIN CONTRIBUTED BY ALL COMMODITY GROUPS: SURVEY DATA



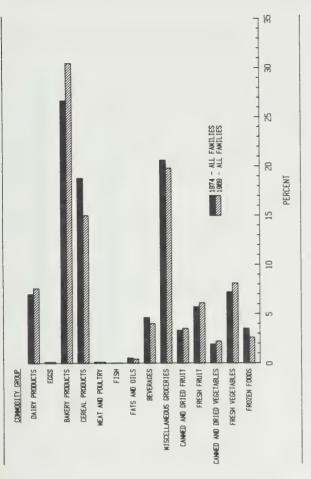
				1969						1974		
Commodity Group	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile
	700	, 00	401	200	100	215	1 00	10.4	107	700	200	10.8
Dairy Froducts	4.07	20.5	4. 6	5.0.3	20.1	21.2	1.02	4.5.4	17.1	4.7	4.2	6.1
Eggs Bakery Products	15.5	163	16.0	16.0	2.51	14.6	13.6	14.0	4.41	14.2	13.7	12.7
Cereal Products	8.9	7.5	0.00	7.5	9.9	5.8	00	9.3	9.0	8.6	7.5	7.1
Meat and Poultry	38.8	37.1	39.0	37.8	39.4	39.5	39.6	38.1	38.6	38.8	40.0	40.6
Fish	2.0	1.9	2.0	2.0	1.9	2.2	2.2	3.1	2.0	2.0	1.9	2.0
Fats and Oils	1.0	0.7	1.0	1.2	1.2	1.0	1.4	1.2	1.1	1.6	1.5	1.4
Beverages	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous Groceries	1.6	1.7	00.	1.7	1.5	1.6	1.7	1.6	1.8	1.7	1.7	1.6
Canned and Dried Fruit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Fresh Fruit		1.3	1.0	6.0		1.0	0.0	1.2	1.0	6.0	6.0	6.0
Canned and Dried Vegetables	8.1	1.8	1.8	1.9	1.8	1.7	1.6	1.5	1.6	1.4	1.7	1.6
Fresh Vegetables	4.0	4.1	4.4	3.7	3.9	4.2	3.7	4.1	4.2	3.5	3.7	3.5
Frozen Foods	1.8	1.5	1.7	1.7	1.9	2.0	2.1	1.7	2.0	2.1	2.4	2.4

TABLE E.3. AND FIGURE E.3
PERCENTAGE OF FAT CONTRIBUTED BY
ALL COMMODITY GROUPS: SURVEY DATA



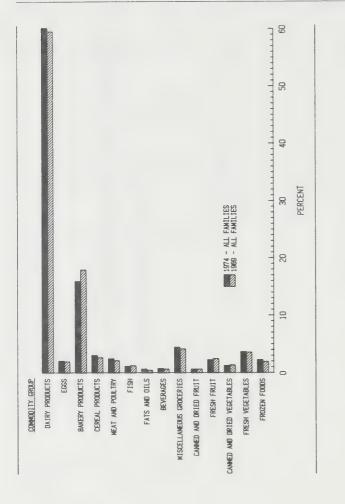
				1969						1974		
Commodity Group	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile	VII	lst Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile
	0.30	150	25.0	250	0.90	273	223	23.2	23.0	22.2	22.0	22.2
Dairy Froducts	2.0.2	23.3	0.07	2.7.7	0.01	000	2.9	2.7	2.6	2.5	2.5	3.7
Delone Deschiote	) «	0.5	× i ×	. «	0.8	) O	7.0	6.9	8.9	6.9	7.8	6.7
Careal Products	1.0	1.0	1.0		1.0	0.0	1:1	1.2	y	1.1	1.1	1.0
Meat and Poultry	41.3	30.5	40.3	40.5	42.5	42.4	39.0	38.2	37.7	37.0	39.4	40.6
Fich	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.8	0.4	0.4	0.4	0.4
Fote and Oile	156		17.4	16.1	14.7	13.6	22.5	22.7	24.0	25.0	21.8	20.7
Bayera age	0.01	00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous Groceries	2.0	2.1	2.0	2.1	6.1	2.0	2.0	1.9	1.9	2.1	2.1	1.8
Canned and Dried Fruit	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0
Fresh Fruit	0.0	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.3	0.3
Conned and Dried Vegetables	0.7	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Fresh Vegetables	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Frozen Foods	1.7	1.5	1.6	1.6	1.8	1.8	2.0	1.5	1.8	2.1	2.2	2.2

TABLE E.4. AND FIGURE E.4
PERCENTAGE OF CARBOHYDRATES CONTRIBUTED BY
ALL COMMODITY GROUPS: SURVEY DATA



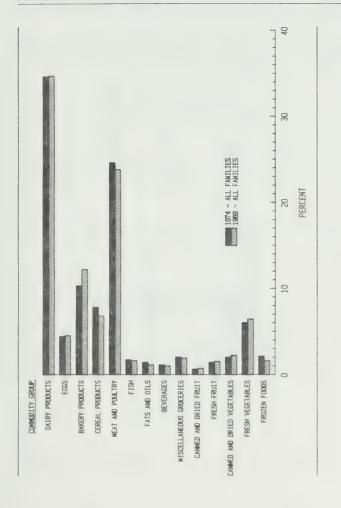
				1969						1974		
Commodity Group	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile
Dairy Products	76	6.9	7.0	7.6	7.7	8.3	7.0	6.1	6.4	7.2	7.2	7.2
Foos	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Bakery Products	30.5	31.3	30.9	31.3	30.4	30.2	26.7	25.5	26.2	27.1	27.7	26.6
Cereal Products	15.0	15.3	14.5	16.5	14.6	13.5	18.8	20.0	19.0	19.4	17.6	17.9
Meat and Poultry	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Fish	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Eats and Oils	0.4	0.2	0.3	0.4	0.4	0.4	0.5	0.4	0.3	0.5	0.5	0.5
Beverages	4.0	3.00	3.9	4.1	3.9	4.3	4.6	3.8	4.5	4.6	4.7	5.1
Miscellaneous Groceries	19.8	19.4	20.9	19.0	20.2	18.7	20.6	22.8	21.8	20.7	20.7	19.0
Canned and Dried Fruit	3.5	3.8	3,3	3.2	3.6	3.9	3.3	3.3	3.0	3.2	3.0	3.9
Fresh Fruit	6.1	7.0	5.7	5.6	6.2	6.3	5.7	6.3	0.9	5.3	5.5	0.9
Canned and Dried Vegetables	2.2	2.2	2.3	2.3	2.2	2.2	1.9	1.7	1.9	1.7	2.0	2.0
Fresh Vegetables	00	7.8	8.7	7.5	7.9	8.7	7.2	7.6	7.9	6.7	7.1	7.0
Frozen Foods	2.6	2.1	2.3	2.3	2.7	3.3	3.5	2.3	2.8	3.4	3.8	4.5

TABLE E.5. AND FIGURE E.5
PERCENTAGE OF CALCIUM CONTRIBUTED BY
ALL COMMODITY GROUPS: SURVEY DATA



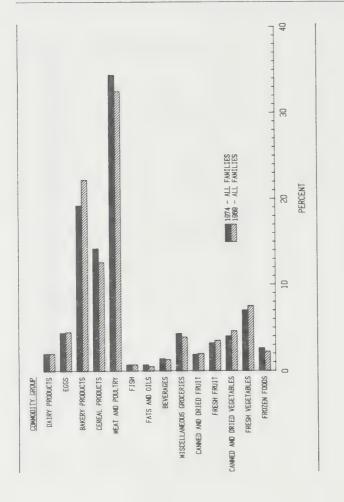
				6961						1974		
Commodity Group	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile
Dairy Products	59.5	57.5	57.8	59.3	59.4	61.1	60.1	58.3	58.9	61.0	9.09	59.7
Foos	1.9	2.2	1.9	2.0	1.9	1.8	2.0	1.9	1.8	1.7	1.7	2.6
Bakery Products	17.9	18.5	000	18.4	18.0	16.6	15.9	16.4	16.9	16.3	15.9	15.2
Cereal Products	2.6	2.3	2.7	2.8	2.6	2.4	3.0	3.0	3.3	3.2	3.0	2.8
Meat and Poultry	2.1	2.0	2.2	2.1	2.2	2.2	2.4	2.2	2.3	2.2	2.4	2.5
Fish	1.2	1.1	1.1		1.2	1.2	1.1	1.4	6.0	1.0	1.0	
Fats and Oils	0.4	0.4	0.5	0.5	0.5	0.4	9.0	9.0	9.0	0.7	0.7	9.0
Beverages	9.0	0.0	0.7	9.0	9.0	9.0	0.7	6.0	0.7	0.7	9.0	8.0
Miscellaneous Groceries	4.1	4.7	4.3	4.1	4.0	3.7	4.4	4.6	4.4	4.3	4.3	4.4
Canned and Dried Fruit	9.0	0.7	9.0	9.0	9.0	0.7	9.0	0.7	9.0	9.0	9.0	0.7
Fresh Fruit	2.4	2.9	2.4	2.2	2.4	2.4	2.2	2.6	2.5	2.1	2.0	2.2
Canned and Dried Vegetables	1.3	1.3	1.3	1.3	1.3	1.3	1.2	1.3	1.2	1.1	1.3	1.3
Fresh Vegetables	3.5	∞. ∞.	3.7	3.1	3.3	3.6	3.6	4.1	3.9	3.1	3.5	3.7
Frozen Foods	1.9	1.7	2.0	1.9	2.0	2.0	2.2	2.0	2.0	2.0	2.4	2.4

TABLE E.6. AND FIGURE E.6
PERCENTAGE OF PHOSPHORUS CONTRIBUTED BY
ALL COMMODITY GROUPS: SURVEY DATA



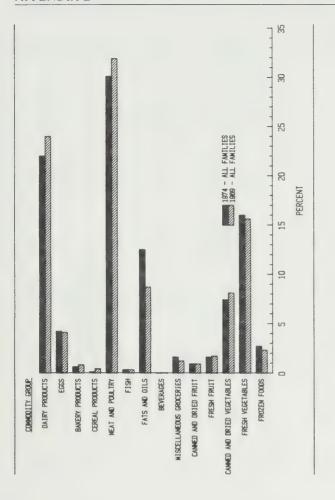
				1969						1974		
Commodity Group	AII	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile
Dairy Products	34.7	33.8	33.4	34.8	34.7	36.1	34.6	33.4	34.0	35.6	35.0	33.9
Eggs	4.5	5.1	4.5	4.6	4.5	4.2	4.4	4.2	4.1	4.0	3.9	5.8
Bakery Products	12.2	12.9	12.7	12.5	12.2	11.4	10.3	10.4	10.6	10.5	11.0	9.6
Cereal Products	8.9	6.9	8.9	7.6	6.5	0.9	7.8	8.7	8.3	8.2	7.3	7.1
Meat and Poultry	23.8	22.8	24.1	23.1	24.2	24.0	24.6	24.0	24.2	24.1	24.6	25.3
Fish	1.6	1.6	1.6	1.6	1.6	1.7	1.7	2.4	1.6	1.6	1.5	1.6
Fats and Oils	1.1	0.7	1.0	1.3	1.3	1.0	1.4	1.3	1.2	1.7	1.6	1.5
Beverages	1.0	1.4	1.0	6.0	6.0	1.0		1.3	1.1	1.1	6.0	1.1
Miscellaneous Groceries	1.9	2.0	2.0	1.9	1.7	8.1	2.0	1.8	2.0	2.0	2.1	1.9
Canned and Dried Fruit	0.7	0.7	9.0	9.0	9.0	0.7	9.0	0.7	9.0	9.0	9.0	0.7
Fresh Fruit	1.5	1.8	1.5	1.4	1.5	1.5	1.4	1.6	1.6	1.3	1.3	1.4
Canned and Dried Vegetables	2.2	2.3	2.3	2.3	2.3	2.1	2.0	1.9	2.1	1.7	2.1	2.0
Fresh Vegetables	6.4	9.9	7.0	5.9	6.3	9.9	0.9	6.7	8.9	5.6	5.9	5.7
Frozen Foods	1.6	1.4	1.5	1.5	1.7	1.9	2.1	1.6	1.8	2.0	2.2	2.4
						The second secon						

TABLE E.7. AND FIGURE E.7
PERCENTAGE OF IRON CONTRIBUTED BY
ALL COMMODITY GROUPS: SURVEY DATA



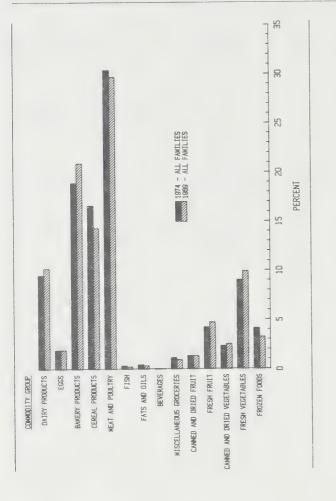
				1969						1974		
Commodity Group	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile	AII	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile
	000	1 0	1 8	2.0	1 9	2.1	2.0	2.0	2.0	2.1	2.0	2.0
Dairy Products	0.7	5.0	2.7	2.4	4.5	4.4	4.4	4.2	3.8	3.9	3.9	5.7
Dollow Droduote	22.2	23.1	22.7	22.9	22.5	21.2	19.2	19.9	19.8	20.3	19.6	17.8
Careal Products	12.77	12.6	13.3	13.9	12.1	11.3	14.2	14.3	16.1	14.7	13.5	12.8
Meat and Poultry	32.5	30.2	32.1	31.9	33.1	33.6	34.4	32.8	32.5	34.1	35.1	35.4
Fich	0.7	0.0	9.0	9.0	9.0	0.7	0.7	6.0	9.0	9.0	9.0	9.0
Lote and Oile	0.5	0.3	0.4	9.0	9.0	0.5	0.7	0.5	0.5	8.0	0.7	0.7
Pavarages		000		7.1	1.2	1.3	1.4	1.6	1.4	1.4	1.2	1.5
Misselloneous Groceries	3.0	4.2	4.0	4.0	3.7	3.8	4.3	4.2	4.2	4.4	4.4	4.3
Conned and Dried Fruit	2.0	2.2		8.1	2.0	2.2	1.9	2.1	1.7	1.9	1.7	2.0
Fresh Fruit	3 6	4.0	3.3	3.2	3.5	3.6	3.2	3.7	3.5	3.0	3.1	3.2
Council and Dailed Vessetables	2.5	4.7	4.6	4.7	4.7	4.5	4.0	4.0	4.0	3.7	4.3	4.2
Canned and Diled Vegetables	7.5	7.7	0 00	6.7	7.3	8.1	7.0	7.9	7.6	6.5	7.0	6.9
Frozen Foods	2.2	1.7	1.9	2.0	2.3	2.7	2.6	1.9	2.3	2.6	2.9	2.9

TABLE E.8. AND FIGURE E.8
PERCENTAGE OF VITAMIN A CONTRIBUTED BY
ALL COMMODITY GROUPS: SURVEY DATA



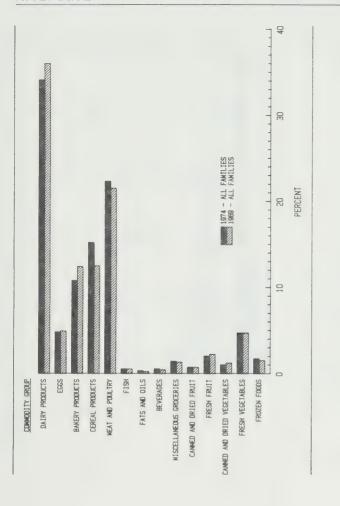
				1969						1974		
Commodity Group	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile
Dairy Products	24.0	21.4	22.3	24.6	26.6	24.7	22.0	19.9	20.9	22.4	23.2	22.6
Eggs	4.1	4.3	3.9	4.4	4.5	3.8	4.2	3.5	3.5	3.8	3.9	5.5
Bakery Products	0.8	0.8	0.8	0.8	0.8	0.7	9.0	0.5	0.5	9.0	0.8	9.0
Cereal Products	0.4	0.3	0.4	9.0	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1
Meat and Poultry	31.9	32.9	32.4	33.3	28.4	32.6	30.1	31.5	33.8	33.1	25.3	28.5
Fish	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.3
Fats and Oils	8.7	9.6	11.3	00.00	8.5	8.9	12.5	13.7	12.0	12.9	13.6	11.0
Beverages	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous Groceries	1.2	6.0	4.1	1.4	1.2	1.1	1.6	1.1	1.6	1.7	1.8	1.5
Canned and Dried Fruit	6.0	1,1	8.0	6.0	1.0	6.0	6.0	1.0	0.8	0.8	6.0	1.0
Fresh Fruit	1.7	1.7	1.6	1.6	1.8	1.7	1.6	1.6	1.7	1.5	1.6	1.6
Canned and Dried Vegetables	8.1	8.4	7.7	7.6	8.1	8.7	7.4	7.2	7.0	6.7	8.0	8.1
Fresh Vegetables	15.6	16.7	15.1	13.6	16.0	15.5	16.0	17.6	15.6	13.7	17.4	15.9
Frozen Foods	2.3	1.7	2.1	2.1	2.5	2.9	2.7	 	2.2	2.4	3.1	3.3

TABLE E.9. AND FIGURE E.9
PERCENTAGE OF THIAMINE CONTRIBUTED BY
ALL COMMODITY GROUPS: SURVEY DATA



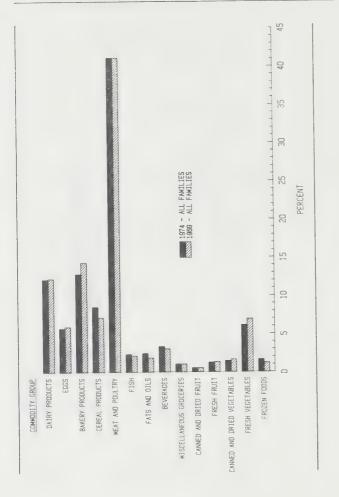
				1969						1974		
Commodity Group	All	1st Ouintile	2nd Ouintile	3rd Quintile	4th Quintile	5th Quintile	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile
day (				10.4	10.2	10.7	0 5	6 %	0 %	10.1	7.6	9.3
Dairy Products	10.2	7.7	9.0	1.0	0.01	10.7	0.	0	1 7	1 7	17	2.4
Eggs	1.9	2.2	1.9	2.0	1.9	N. I. S	6.1	0.1		1.7	10.4	
Bakery Products	20.9	21.3	21.5	22.1	21.2	19.6	18.9	18.9	19.5	19.9	19.4	/ - / -
Caract Droducts	143	153	13.6	15.5	13.9	13.1	16.6	18.0	17.3	16.9	16.0	15.5
Most sad Doubter	7.00	28.1	30.5	28.5	29.8	30.6	30.4	29.4	29.7	29.7	30.7	32.0
Meat and Fountly	0.0	0.0	0.2	0.2	0.2	0.3	0.3	0.5	0.2	0.3	0.2	0.2
FISH Feet and Oile	7.0	0.0	0.0	0.3	0.3	0.3	0.4	0.3	0.3	0.4	0.4	0.4
Fats and Oils		7.0	2:0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Deverages	0.0	0.0	0: -	0.1	0.9	6.0	1.1	6.0	1.1	1.1	1.1	1.0
Miscellaneous Gloceries	1	1.7	1.2	1.2	1.3	1.4	1.3	1.4	1.2	1.3	1.2	1.4
Callifor and Direct Funt	4.7	4	4.5	4.2	4.6	4.6	4.2	4.8	4.5	4.1	3.9	4.2
Fresh Fluit	- 4	2.5	2.5	9 6	2.6	2.3	2.3	2.3	2.3	2.1	2.4	2.4
Canned and Dried Vegetables	0.0	10.0	10.6	0.5	0.7	10.3	0.6	10.0	10.0	8.5	8.9	8.5
Fresh Vegetables Frozen Foods	3.2	2.6	2.7	2.8	3,3	4.1	4.1	2.8	3.3	3.9	4.4	5.0

TABLE E.10. AND FIGURE E.10
PERCENTAGE OF RIBOFLAVIN CONTRIBUTED BY
ALL COMMODITY GROUPS: SURVEY DATA



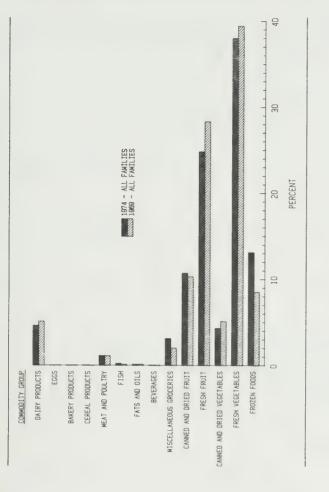
				1969						1974		
Commodity Group	All	lst Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Ouintile
Dairy Products	36.0	34.4	34.9	36.1	365	37.1	34.1	37 3	30 %	35.0	34.0	33.5
Eggs,	4.9	5.5	4.9	5.0	4.9	4.6	8.	4.6	5:4	5.4	4.3	63.0
Bakery Products	12.4	12.6	13.1	12.9	12.6	11.5	10.8	11.0	11.3	1	11.3	10.1
Cereal Products	12.5	12.6	11.8	13.0	12.7	12.0	15.2	15.4	15.7	14.8	15.4	15.0
Meat and Poultry	21.5	21.7	22.3	21.1	20.7	21.8	22.3	23.3	22.8	23.1	21.0	21.9
Fish	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.5	0.5	0.5	0.5
Fats and Oils	0.2	0.1	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.3
Beverages	0.4	0.5	0.4	0.3	0.3	0.4	0.5	9.0	0.5	0.4	0.5	0.5
Miscellaneous Groceries	1.3	1.4	1.4	1.4	1.3	1.3	1.4	1.3	1.4	1.4	1.5	4.
Canned and Dried Fruit	0.7	0.8	9.0	9.0	0.7	0.7	0.7	0.7	9.0	9.0	9.0	0.7
Fresh Fruit	2.2	2.5	2.1	2.0	2.1	2.1	2.0	2.3	2.2	1.9	1.9	1.9
Canned and Dried Vegetables	1.2	1.2	1.3	1.2	1.2	1.1	1.0	1.0	1.1	6.0	percel percel	1.1
Fresh Vegetables	4.7	4.9	5.0	4.2	4.6	5.0	4.7	5.1	5.1	4.2	4.8	4.9
Frozen Foods	1.5	1.3	1.5	1.4	1.6	1.7	1.7	1.4	1.5	1.6	1.9	1.9

TABLE E.11. AND FIGURE E.11
PERCENTAGE OF NIACIN CONTRIBUTED BY
ALL COMMODITY GROUPS: SURVEY DATA



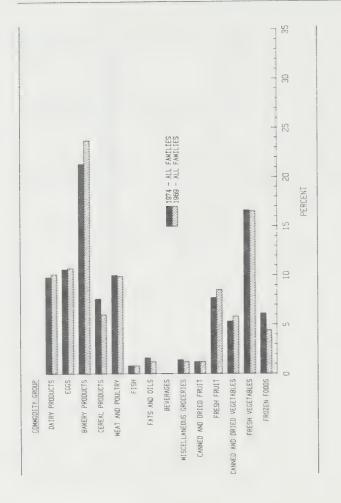
				1969						1974		
Commodity Group	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile
days (special)			,					,	-	10.5	10.4	11 %
Description Description	12.2	11.9	11.6	12.3	12.1	12.8	12.1	11.4	11./	12.3	17.7	11.0
Dally Flourets	1	7 7	OI V	6.1	00	5.6	5.7	5.4	5.2	5.1	2.1	7.4
Eggs	6.0	0.0	0, 4,	140	1 3	13.3	12.8	12.9	13.5	13.3	13.0	11.7
Bakery Products	14.3	14.5	0.4.0	y.+.		7.7.7	0 0	10	0 1	8.6	00.3	7.8
Cereal Products	7.1	7.6	8.9	1.1	0./	0.0	5.0	1.6	1.0	9.0	41.0	41.8
Man on Doulton	41.1	39.4	41.2	40.0	41.4	41.9	41.1	7.04	7.04	40.0	7.1+	0.10
Meat and Found	11.6		2 1	2.1	2.1	2.3	2.3	3.0	2.2	2.2	2.1	7.7
Fish	7.7	1.7	1.7	1:10		1 7	2 4	2.0	1.8	.0	2.8	2.5
Fats and Oils	×.	1.1	0.1	7.3	7.7	1.1			2 /	1 3	2.0	3.4
Reversions	3.0	4.3	3.1	2.7	2.8	3.0	3.3	5.5	j.,	J. L	7:-	
Develações		0.0	_	1.0	6.0	6.0	1.0	6.0	1.1	ord o	1.1	0.1
Miscellaneous Groceries	0.1	7.0	4.0	250	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Canned and Dried Fruit	0.0	0.0	C	) ·		- 2	1 2	1.4	1.4	1.2	1.2	protect o
Fresh Fruit	1.3	9.1	1.3	7.1	6.1	1.3	7.1	7 7	1 4	1 3	- 2	1.4
Commend and Dried Wonetables	16	1.7	1.7	1.6	1.6	1.5	1.4	1.4	t. I	1.5	L. 1	
Camiled and Direct vegetables	0.1	0.7	75	6.5	29	7.2	6.1	6.7	7.0	2.00	6.1	0.0
Fresh Vegetables	6.0	6.0	٠. ا		- 2	5	1.6	1.2	1.5	1.7	. N	1.8
Frozen Foods	1.2	0.1	1.1	1.1	C. I	710						

TABLE E.12. AND FIGURE E.12
PERCENTAGE OF ASCORBIC ACID CONTRIBUTED BY
ALL COMMODITY GROUPS: SURVEY DATA



				1969						1974		
Commodity Group	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile	A	1st Quintile	2nd Ouintile	3rd Ouintile	4th Ouintile	5th Ouintile
Dairy Products	5.1	4.9	5 5	8 5	5.1	4.4	4.6	0 4	7.7	0 8	7 5	OF
Eggs,	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	) · · ·	0.0	0.0	0.4
Bakery Products	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0:0
Cereal Products	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Meat and Poultry	Ξ:	1.3	1.2	1.2	6.0	1.1		1.4	4.1	4:	0.00	0.9
Fish	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.5	0.2	0.2	0.1	0.1
Fats and Oils	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Beverages	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Miscellaneous Groceries	2.0	1.8	2.3	2.4	2.0	∞: ∞:	3.1	2.7	2.9	3.5	3.5	2.9
Canned and Dried Fruit	10.3	9.5	0.6	10.7	11.1	10.7	10.7	9.4	9.3	12.2	10.0	11.3
Fresh Fruit	28.3	32.2	27.4	27.7	27.2	27.3	24.8	27.2	27.4	24.9	23.8	23.3
Canned and Dried Vegetables	5.1	5.0	5.8	5.7	5.3	4.3	4.3	4.5	4.2	4.3	4.5	4.2
Fresh Vegetables	39.4	38.6	42.2	39.4	39.6	38.1	38.0	41.1	40.3	36.5	39.3	35.5
Frozen Foods	8.5	6.5	6.4	8.9	8.6	12.1	13.1	8.1	9.5	11.9	13.4	17.7

TABLE E.13. AND FIGURE E.13
PERCENTAGE OF TOTAL FOLATE CONTRIBUTED BY
ALL COMMODITY GROUPS: SURVEY DATA



				1969						1974		
Commodity Group	All	1st Quintile	2nd Quintile	0	4th Quintile	5th Quintile	All	1st Quintile	2nd Quintile	3rd Quintile	4th Quintile	5th Quintile
D D. d	101	0.0	0.7		101	10.6	8.6	9.2	9.3	10.3	10.1	9.4
Dairy Froducts	10.1	11.6	10.5	11.1	10.8	10.0	10.6	8.6	9.3	9.6	9.5	13.2
Deleary Droducts	73.7	23.6	24.4	24.9	24.2	21.9	21.3	21.5	22.2	22.9	22.0	19.4
Caraol Droducts	6.0	9.62	5.9	8.9	5.8	5.1	7.6	9.1	7.9	8.0	7.1	6.7
Mest and Poultry	66	8.6	10.1	6.6	9.5	10.1	10.0	10.2	10.4	10.6	9.5	9.6
Fish	000	0.7	0.8	0.8	0.8	0.8	0.8	1.3	0.7	8.0	0.7	0.7
Fate and Oile	1.2	0.7		1.5	1.5	1.1	1.6	1.3	1.2	1.9	1.9	1.7
Danagas	2:0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Missellaneous Groceries	0.0		1.3	1.3	1.2	1.2	1.4	1.2	1.4	1.4	1.5	1.3
Canned and Dried Fruit	1.5	<u> </u>	1.2	1.2	1.2	1.3	1.2	1.3	1.2	1.2	1.2	1.2
Camino and Circa right	× ×	0	000	7.9	8.3	8.5	7.7	4.8	8.5	7.6	7.4	7.3
Conned and Dried Vecetables	000	0 00	5.9	0.9	6.1	5.6	5.3	5.1	5.3	4.9	5.7	5.3
Callied and Direct vegetables	16.5	16.5	17.3	14.8	16.0	17.5	16.6	17.7	17.7	15.2	16.9	16.3
Frozen Foods	4.4	3.5	3.6	3.5	4.5	6.3	6.1	3.9	4.9	5.6	6.5	7.9

#### **APPENDIX F**

APPROXIMATE CONTRIBUTIONS TO THE TOTAL NUMBER OF CALORIES BY CARBOHYDRATES, FAT, AND PROTEIN IN FOODS AVAILABLE FOR CONSUMPTION IN CANADA,

1960-75

Table F.1

TABLE F.1. APPROXIMATE CONTRIBUTION TO THE TOTAL NUMBER OF CALORIES<sup>a</sup> BY CARBOHYDRATES, FAT, AND PROTEIN IN FOODS AVAILABLE FOR CONSUMPTION IN CANADA, 1960–75

Year	Food Energy	Carboh	ydrates	F	at	Pro	tein
		% t	otal	% to	otal	% 1	otal
	cal	g	calb	g	cal	g	calb
1960	3029	377	50	132	39	89	12
1961	2974	368	49	131	40	88	12
1962	3008	373	50	133	40	87	12
1963	3046	376	49	135	40	89	12
1964	3066	377	49	137	40	89	12
1965	3130	392	50	136	39	92	12
1966	3135	383	49	141	40	91	12
1967	3170	383	48	144	41	92	12
1968	3167	381	48	146	41	91	11
1969	3195	384	48	146	41	93	12
1970	3186	381	48	147	42	91	11
1971	3217	381	47	151	42	91	11
1972	3257	386	47	152	42	93	11
1973	3214	390	49	147	41	92	11
1974	3196	375	47	150	42	94	12
1975	3168	373	47	147	42	95	12

<sup>&</sup>lt;sup>a</sup> Assuming 1 g of carbohydrate, protein, and fat yields, 4, 4, and 9 cal of food energy, respectively (A.L.[Merrill and B.K. Watt, Energy Values of Foods, Basis and Derivation).

<sup>&</sup>lt;sup>b</sup> Per person per day, calculated from food disappearance data.

#### **APPENDIX G**

ACTUAL AND PERCENTAGE CONTRIBUTIONS TO FOOD ENERGY AND MACRONUTRIENT INTAKE BY MAJOR FOODS, 1960–75

Tables G.1 - G.8

TABLE G.1. ACTUAL CONTRIBUTION TO FOOD ENERGY BY MAJOR FOODS IN CANADA, 1960-75

	Wheat				Shortening and Shorte-						Fluid Whole		Total Food
Year	Flour	Sugar	Margarine	Butter	ning Oil	Potatoes	Beef	Pork	Eggs	Chicken	Milk	Cheese	Energy
						calor	ies						
1960	610	440	83	151	102	128	242	192	59	27	264	35	3030
1961	605	428	90	147	101	113	244	184	59	30	254	36	2975
1962	599	444	88	159	106	124	246	183	58	30	249	39	3010
1963	624	428	83	170	109	115	257	185	55	32	247	40	3045
1964	569	468	79	169	113	118	275	189	55	34	245	42	3065
1965	639	475	78	165	108	105	289	175	55	36	242	44	3130
1966	589	483	80	158	140	108	291	172	53	39	238	44	3135
1967	584	474	82	147	152	133	288	199	54	41	232	47	3170
1968	586	482	84	147	155	116	295	196	54	41	225	49	3165
1969	605	471	87	140	168	130	300	188	55	47	219	53	3195
1970	596	480	83	137	168	117	292	215	56	50	210	56	3185
1971	561	488	83	139	165	123	309	250	55	48	208	59	3220
1972	592	487	87	133	182	124	320	223	53	50	210	62	3255
1973	587	515	88	121	19'2	118	288	211	50	53	210	68	3215
1974	598	437	96	118	187	112	297	217	49	50	209	73	3195
1975	614	418	04	106	191	118	320	186	48	48	196	73	3170

TABLE G.2. PERCENTAGE CONTRIBUTION TO FOOD ENERGY BY MAJOR FOODS IN CANADA, 1960–75

Year	Wheat Flour	Sugar	Margarine	Butter	Shortening and Shorte- ning Oil	Potatoes	Beef	Pork	Eggs	Chicken	Fluid Whole Milk	Cheese	
						2000							
						perce	311 t						
1960	20	15	3	5	3	4	8	6	2	1	9	1	
1961	20	14	3	5	3	4	8	6	2	1	9	1	
1962	20	15	3	5	4	4	8	6	2	1	8	1	
1963	20	14	3	6	4	4	8	6	2	1	8	1	
1964	19	15	3	6	4	4	9	6	2	1	8	1	
1965	20	15	2	5	3	3	9	6	2	1	8	1	
1966	19	15	3	5	4	3	9	5	2	1	8	1	
1967	18	15	3	5	5	4	9	6	2	1	7	1	
1968	19	15	3	5	5	4	9	6	2	1	7	2	
1969	19	15	3	4	5	4	9	6	2	1	7	2	
1970	19	15	3	4	5	4	9	7	2	2	7	2	
1971	17	15	3	4	5	4	10	8	2	1	6	2	
1972	18	15	3	4	6	4	10	7	2.	2	6	2	
1973	18	16	3	1	6	4	9	7	2	2	7	2	
1973	19	14	2	4	6	4	9	7	2	2	7	2	
1974	19	13	3	2	6	4	10	6	2	2	6	2	

TABLE G.3. ACTUAL CONTRIBUTION TO PROTEIN BY MAJOR FOODS IN CANADA, 1960-75

	Wheat				Shortening and Shorte-						Fluid Whole		Total
Year	Flour	Sugar	Margarine	Butter	ning Oil	Potatoes	Beef	Pork	Eggs	Chicken	Milk		Protein
						grai	n						
1960	18	0	0	0	0	4	12	6	5	3	14	2	89
1961	17	0	0	0	0	3	12	6	5	3	14	2	88
1962	17	0	0	0	0	3	12	5	4	3	13	2	87
1963	18	0	0	0	0	3	13	5	4	3	13	3	89
1964	16	0	0	0	0	3	13	6	4	3	13	3	89
1965	18	0	0	0	0	3	14	5	4	4	13	3	92
1966	17	0	0	0	0	3	14	5	4	4	13	3	91
1967	17	0	0	0	0	4	14	6	4	4	12	3	92
1968	17	0	0	0	0	3	14	6	4	4	12	3	91
1969	17	0	0	0	0	4	15	6	4	5	12	3	93
1970	17	0	0	0	0	3	14	6	4	5	11	4	91
1971	16	0	0	0	0	3	15	7	4	5	11	4	91
1972	17	0	0	0	0	3	16	7	4	5	11	4	93
1973	17	0	0	0	0	3	16	6	4	5	11	4	92
1974	17	0	0	0	0	3	17	6	4	5	11	5	94
1975	18	0	0	0	0	3	18	6	4	5	10	5	95

TABLE G.4. PERCENTAGE CONTRIBUTION TO PROTEIN BY MAJOR FOODS IN CANADA, 1960-75

	Wheat				Shortening and Shorte-						Fluid Whole		
Year		Sugar	Margarine	Butter	ning Oil	Potatoes	Beef	Pork	Eggs	Chicken	Milk		
						perce	nt						
1960	20	0	0	0	0	4	13	7	6	3	16	2	
1961	19	0	0	0	0	3	14	7	6	3	16	2	
1962	20	0	0	0	0	3	14	6	5	3	15	2	
1963	20	0	0	0	0	3	15	6	4	3	15	3	
1964	18	0	0	0	0	3	15	7	4	3	15	3	
1965	20	0	0	0	0	3	15	5	4	4	14	3	
1966	19	0	0	0	0	3	15	5	4	4	14	3	
1967	18	0	0	0	0	4	15	7	4	4	13	3	
1968	19	0	0	0	0	3	15	7	4	4	13	3	
1969	18	0	0	0	0	4	16	6	4	5	13	3	
1970	19	0	0	0	0	3	15	7	4	5	12	4	
1971	18	0	0	0	0	3	16	8	4	5	12	4	
1972	18	0	0	0	0	3	17	8	4	5	12	4	
1973	18	0	0	0	0	3	17	7	4	5	12	4	
1974	18	0	0	0	0	3	18	6	4	5	12	5	
1975	19	0	0	0	0	3	19	6	4	5	11	5	

TABLE G.5. ACTUAL CONTRIBUTION TO FAT BY MAJOR FOODS IN CANADA, 1960-75

Year	Wheat Flour	Sugar	Margarine	Butter	Shortening and Shorte- ning Oil	Potatoes	Beef	Pork	Eggs	Chicken	Fluid Whole Milk	Cheese	Total Fat
						gran	ns						
1960	2	0	9	17	12	0	21	19	4	2	14	3	132
1961	2	0	10	17	11	0	21	18	4	2	14	3	131
1962	2	0	10	18	12	0	22	18	4	2	14	3	133
1963	2	0	9	19	12	0	23	18	4	2	13	3	135
1964	2	0	9	19	13	0	24	18	4	2	13	3	137
1965	2	0	9	19	12	0	25	17	4	2	13	4	136
1966	2	0	9	18	16	0	26	17	4	2	13	4	141
1967	2	0	9	17	17	0	25	19	4	3	13	4	144
1968	2	0	10	17	18	0	26	19	4	3	12	4	146
1969	2	0	10	16	19	0	26	18	4	3	12	4	146
1970	2	0	9	16	19	0	26	21	4	3	11	5	147
1971	2	0	9	16	19	0	27	24	4	3	11	5	151
1972	2	0	10	15	21	0	28	22	4	3	11	5	152
1973	2	0	10	14	22	0	24	20	4	3	1.1	6	147
1974	2	0	11	13	21	0	25	21	3	3	11	6	150
1975	2	0	12	12	22	0	27	18	3	3	11	6	147

TABLE G.6. PERCENTAGE CONTRIBUTION TO TOTAL FAT BY MAJOR FOODS IN CANADA, 1960–1975

	Wheat				Shortening and Shorte-						Fluid Whole	
Year	Flour	Sugar	Margarine	Butter	ning Oil	Potatoes	Beef	Pork	Eggs	Chicken	Milk	Cheese
						perce	nt					
1960	2	0	7	13	9	0	16	14	3	2	11	2
1961	2	0	8	13	8	0	16	14	3	2	11	2
1962	2	0	8	14	9	0	17	14	3	2	11	2
1963	1	0	7	14	9	0	17	13	3	1	10	2
1964	1	0	7	14	9	0	18	13	3	1	9	2
1965	1	0	7	14	9	0	18	13	3	1	10	3
1966	1	0	6	13	11	0	18	12	3	1	9	3
1967	1	0	6	12	12	0	17	13	3	2	9	3
1968	1	0	7	12	12	0	18	13	3	2	8	3
1969	1	0	7	11	13	0	18	12	3	2	8	3
1970	1	0	6	11	13	0	18	14	3	2	7	3
1971	1	0	6	11	13	0	18	16	3	2	7	3
1972	1	0	7	10	14	0	18	14	3	2	7	3
1973	1	0	7	10	15	0	16	14	3	2	7	4
1974	1	0	7	9	14	0	17	14	2	2	7	4
1975	1	0	8	8	15	0	18	12	2	2	7	4

TABLE G.7. ACTUAL CONTRIBUTION TO CARBOHYDRATES BY MAJOR FOODS IN CANADA, 1960–75

Year	Wheat Flour	Sugar	Margarine	Butter	Shortening and Shorte- ning Oil	Potatoes	Beef	Pork	Eggs	Chicken	Fluid Whole Milk	Cheese	Total Carbo- hydrates
						gran	ns						
1960	128	114	0	0	0	29	0	0	0	0	20	0	377
1961	127	111	0	0	0	25	0	0	0	0	19	0	368
1962	125	115	0	0	0	28	0	0	0	0	19	0	373
1963	130	111	0	0	0	26	0	0	0	0	19	0	376
1964	119	121	0	0	0	27	0	0	0	0	19	0	377
1965	134	123	0	0	0	24	0	0	0	0	18	0	392
1966	123	125	0	0	0	24	0	0	0	0	18	0	383
1967	122	122	0	0	0	30	0	0	0	0	18	0	383
1968	122	125	0	0	0	26	0	0	0	0	17	0	381
1969	127	122	0	0	0	29	0	0	0	0	17	0	384
1970	125	124	0	0	0	26	0	0	0	0	16	0	381
1971	117	126	0	0	0	28	0	0	0	0	16	0	381
1972	124	126	0	0	0	28	0	0	0	0	16	0	386
1973	123	133	0	0	0	26	0	0	0	0	16	0	390
1974	125	113	0	0	0	25	0	0	0	0	16	0	375
1975	128	108	0	0	0	27	0	0	0	0	15	0	373

TABLE G.8. PERCENTAGE CONTRIBUTION TO CARBOHYDRATES BY MAJOR FOODS IN CANADA, 1960–75

	Wheat				Shortening and Shorte-						Fluid Whole		
Year	Flour	Sugar	Margarine	Butter	ning Oil	Potatoes	Beef	Pork	Eggs	Chicken	Milk	Cheese	
						perce	nt						
1960	34	30	0	0	0	8	0	0	0	0	5	0	
1961	35	30	0	0	0	7	0	0	0	0	5	0	
1962	34	31	0	0	0	8	0	0	0	0	5	0	
1963	35	30	0	0	0	7	0	0	0	0	5	0	
964	32	32	0	0	0	7	0	0	0	0	5	0	
965	34	31	0	0	0	6	0	0	0	0	5	0	
1966	32	33	0	0	0	6	0	0	0	0	5	0	
1967	32	32	0	0	0	8	0	0	0	0	5	0	
1968	32	33	0	0	0	7	0	0	0	0	4	0	
1969	33	32	0	0	0	8	0	0	0	0	4	0	
1970	33	33	0	0	0	7	0	0	0	0	4	0	
1971	31	33	0	0	0	7	0	0	0	0	4	0	
1972	32	33	0	0	0	7	0	0	0	0	4	0	
1973	32	34	0	0	0	7	0	0	0	0	4	0	
1974	33	30	0	0	0	7	0	0	0	0	4	0	
1975	34	29	0	0	0	7	0	0	0	0	4	0	

## **APPENDIX H**

PER-CAPITA DOMESTIC DISAPPEARANCE OF MEAT, FRUIT, AND VEGETABLES IN CANADA, 1960–75

Tables H.1 - H.4

TABLE H.1. PER-CAPITA DOMESTIC DISAPPEARANCE<sup>a</sup> OF MEAT<sup>b</sup> AND POULTRY; 1960-75

Food Type	1960	1961	1962	1963	1964	1965	1966	1961	1968	1969	1970	1971	1972	1973	1974	1975
								kg								
Pork	23.80	22.82	22.71	23.00	23.49	21.71	21.31	24.73	24.26	23.32	26.65	29.47	28.63	26.88	28.18	24.18
Beef	31.66	32.00	32.25	33.71	36.01	37.91	38.11	37.72	38.62	38.85	38.29	40.18	42.77	42.05	43.67	48.53
Veal	3.12	3.09	3.22	2.97	3.26	3.75	3.15	3.18	3.08	2.30	2.06	2.01	1.66	1.56	1.60	2.38
Mutton and Lamb	1.33	1.60	1.72	1.80	1.53	1.29	1.76	1.89	2.22	2.28	2.06	1.47	2.09	1.64	1.12	1.38
Offal	2.15	2.05	1.95	1.83	1.76	1.62	1.65	1.78	1.68	1.72	1.55	1.94	1.92	1.77	1.69	1.69
Canned <sup>d</sup> Meat	3.38	2.46	2.39	2.36	2.48	2.46	2.50	2.83	3.00	3.43	3.59	1		1	-	Į
Chicken	1			8.90	9.64	10.02	10.91	11.68	11.63	13.32	14.21	13.21	13.91	14.59	13.94	13.22
Fowl		Auditoria	1	2.07	2.12	2.04	2.02	1.87	1.77	1.50	1.50	1.62	1.32	1.43	1.40	1.29
Turkey	2.88	3.45	3.47	3.76	3.91	4.29	4.68	4.71	4.42	4.53	4.56	4.64	4.67	4.57	4.72	4.26
Duck	0.15	0.13	0.14	0.14	0.15	0.16	0.15	0.15	0.14	0.13	0.14	0.17	0.18	0.17	0.17	0.20
Goose	0.07	0.07	90.0	0.07	0.08	0.08	0.08	60.0	0.08	0.07	0.07	0.00	0.08	0.09	0.07	0.03
<sup>a</sup> Revised series.					d Cold dre	Cold dressed carcas	s and offal	equivalent	نہ							

<sup>a</sup> Revised series.
<sup>b</sup> Cold dressed carcass weight basis.

c Eviscerated weight.

Sources: Statistics Canada, Livestock and Animal Products Statistics and Statistics Canada, Production of Poultry and Eggs.

TABLE H.2. PER-CAPITA DOMESTIC DISAPPEARANCE<sup>a</sup> OF TOMATOES,<sup>b</sup> 1960–75

Food Type	1960	1960 1961 1962	1962	1963	1964	1965	1966	1961	1968	6961	1970	1971	1972	1973	1974	1975
								kg								
Tomatoes, Fresh	7.98	8.07	7.62	80.9	80.9	2.67	5.87	5.76	5.27	5.43	5.80	5.08	4.99	5.60	5.06	5.14
Tomatoes, Canned	2.54	3.02	2.64	2.90	2.54	2.58	2.76	2.27	2.59	2.63	2.77	2.70	2.79	3.21	3.23	2.48
Tomato Juice	4.47	4.57	5.16	5.08	4.38	4.26	4.67	3.79	4.13	3.73	3.64	3.83	3.52	3.86	4.04	4.06
Pulp, Paste, and Purée	0.67	0.44	0.70	0.87		Vagantau		1.26		1.12		ļ		1.71		0.80
Catsup	1.35	1.34	1.28	1.49	1.35	1.81	1.75	1.66	1.89	1.86	1.88	1.86	2.00	1.98	2.32	2.35
Tomatoes Other-wise Used	1	1						1					1			-

a Revised series.

<sup>b</sup> Retail weight.

Source: Statistics Canada, Apparent Per Capita Domestic Disappearance of Foods in Canada.

TABLE H.3. PER-CAPITA DOMESTIC DISAPPEARANCE<sup>a</sup> OF FRUITS,<sup>b</sup> 1960-75

		10/4		0,01	10,74	1075	1000	10.07	1060	1020	1070	1071	1073	1072	1074	1075
Food Type	1900	1901	7061	1905	1704	1905	1,500	1207	1700	1202	17/0	17/1	1717	0171	1//1	01/1
								kg								
Granefruit Fresh	3.24	3.86	3.66	2.58	2.76	3.34	3.11	3.91	3.26	4.30	4.16	3.90	3.87	3.91	3.90	3.63
Granefruit Inice	190	0.71	0.68	0.53	0.35	0.42	0.40	09.0	0.49	0.68	99.0	0.56	0.56	0.71	99.0	0.62
Oranges Fresh	10.07	9.25	8.75	7.37	8.89	8.85	60.6	9.53	8.14	9.27	9.15	8.98	9.27	9.21	9.19	10.07
Orange Juice	4.60	4.32	4.53	3.67	3.36	3.17	3.66	4.40	4.33	4.35	4.22	5.52	5.95	6.93	7.35	9.15
Orange and Grape-																;
fruit Juice		}				1		1	1	1.23	1.18	0.84	0.78	0.77	0.83	0.09
Lemons, Fresh	0.78	0.78	0.77	0.76	0.72	0.73	0.71	0.75	0.72	0.75	0.74	0.71	0.73	0.74	0.73	0.80
Lemon Juice	0.63	69.0	0.63	0.49	0.32	0.20	0.22	0.22	0.21	0.26	0.27	0.29	0.24	0.19	0.20	0.24
Apples, Fresh	8.71	8.62	13.04	13.72	12.72	12.29	10.69	9.64	12.19	12.52	11.44	11.90	10.54	11.08	13.43	11.77
Apples, Canned	0.27	0.48	0.24	0.29	0.17	0.31	0.23	0.22	0.22	0.24	0.15	0.19	0.10	0.07	90.0	0.16
Apple Inice	2.15	1.63	2.32	3.03	3.28	2.86	3.48	3.29	2.74	3.04	3.03	2.81	2.49	2.70	2.30	4.25
Apples, Frozen	0.06	0.09	0.10	0.12	0.11	0.22	0.18	0.19	0.14	0.14	0.19	0.11	0.19	0.19	90.0	0.15
Apples, Dried	0.03	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.03	0.03	0.02	0.02	0.02	0.02
Applesance	0.37	0.30	0.36	0.41	0.46	0.51	0.56	0.63	0.58	09.0	0.50	0.56	0.59	0.62	0.71	0.45
Apple Pie Filling	0.22	0.27	0.20	0.25	0.22	0.27	0.30	0.29	0.24	0.21	0.19	0.24	0.22	0.16	0.22	0.19
Apples Otherwise Used	1						-	1	1	a. company	-	į	İ			İ
Apricots Fresh	0.21	0.24		-	0.24	0.08	0.19	0.11	0.11	0.04	0.12	0.11	0.10	0.14	0.00	0.11
Apricots, Canned	0.25	0.25	0.25	0.26	0.27	0.31	0.32	0.27	0.26	0.22	0.22	0.24	0.21	0.20	0.10	0.15
Apricots, Frozen	0.00	0.00	0.00	0.00	0.00		0.01	0.00	0.01	0.00	0.00			1	0.00	
Bananas, Fresh	9.43	20.87	8.17	7.92	8.11	8.49	8.72	8.91	9.38	9.17	9.35	09.6	9.49	9.73	9.85	9.34
Blueberries, Fresh	0.15	0.17	0.17	0.20	0.18	0.12	0.22	0.30	0.17	0.29	0.22	0.16	0.26	0.27	0.17	0.43
Blueberries, Canned	0.03	0.02	0.02	0.02	0.01	0.03	0.02	0.02	0.02	0.03	0.03	0.02			-	
Blueberries, Frozen	0.00	0.00	0.00	0.00	0.02	0.04	0.08		-	0.00	0.08	0.05	0.00	-	0.04	1
Cherries, Fresh	0.25	0.38	0.43	0.43	69.0	0.26	0.38	0.44	0.36	0.34	0.38	0.56	0.47	0.61	99.0	0.72
Cherries, Canned	0.21	0.26	0.26	0.20	0.19	0.22	0.16	0.15	0.15	0.14	0.15	0.14	0.11	0.10	0.10	0.16
Cherries, Frozen	0.22	0.20	0.26	0.28	0.31	0.34	0.29	0.24	0.24	0.21	0.28	0.26	0.29	0.26	0.24	0.19
Cranberries, Fresh	0.11	0.12	0.11	0.12	0.15	0.12	0.11	90.0	. 90.0		0.14	0.25	0.20	0.24	0.22	0.31
Grapes, Fresh	4.39	4.11	4.37	4.40	4.67	5.95	5.42	5.36	5.15	5.34	4.32	4.99	4.05	4.79	5.39	5.43
Grape Juice	0.00	80.0	0.04	0.00	0.00			0.05	0.02	0.12	0.17	0.51	0.25	1.00	0.88	0.18
Melons, Fresh	4.41	3.25	3.02	3.29	3.15	3.34	3.08	3.59	3.48	3.59	4.13	3.77	3.71	3.79	3.68	3.88
Peaches, Fresh	2.44	2.72	2.03	2.27	2.32	1.90	2.10	1.76	2.25	2.29	2.51	2.78	2.18	2.41	2.79	3.07
Peaches, Canned	1.85	1.85	1.78	1.89	1.87	1.95	1.90	1.78	1.66	1.73	1.34	1.69	1.52	1.75	1.46	1.50
Peaches, Frozen	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00
Pears, Fresh	1.30	1.37	1.37	1.22	1.38	0.97	1.47	1.27	1.32	1.40	1.38	1.52	1.68	1.91	1.59	1.79
Pears, Canned	92.0	0.88	0.94	0.88	0.92	0.97	0.92	0.85	0.84	0.82	0.80	0.84	0.82	00.1	0.85	0.64
Pineapple, Fresh	0.19	0.20	0.16	0.09	0.13	0.14	0.12	0.12	0.10	0.14	0.15	0.16	0.16	0.24	0.23	0.30
Pineapple, Canned	0.98	0.93	0.93	1.04	1.12	1.07	0.98	1.32	96.0	1.06	0.95	1.31	1.12	1.17	0.85	1.12
Pineapple Juice	0.42	0.37	0.52	0.54	0.35	0.38	0.39	0.59	0.46	0.52	0.46	0.34	0.43	0.48	0.44	1.01
Plums, Fresh	0.80	0.88	0.73	0.98	0.99	0.75	0.80	0.77	0.80	0.03	0.74	0.00	0.00	0.00	0.13	0.10
Plums, Canned	0.21	0.21	0.21	0.20	0.21	0.20	0.20	0.19	0.20	0.10	0.13	0.12	1.0	00.0	C1.0	0.02
Flums, Frozen	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.0	10:0	0:0	200	2		)		

TABLE H.3. PER-CAPITA DOMESTIC DISAPPEARANCE <sup>a</sup> OF FRUITS, <sup>b</sup> 1960-75 (concluded)
BLE H.3. PER-CAPITA DOMESTIC DISAPPEARANCE <sup>4</sup> OF FRUITS, <sup>5</sup> 1960-
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TABLE H

Food Type	1960	1961	1962	1963	1964	1965	9961	1961	8961	6961	1970	1971	1972	1973	1974	1975
								kg	50							
Raspberries, Fresh	0.16	0.08	0.03	0.04	0.04	-	0.34	0.26	0.24	0.25	0.24	0.22	0.22	0.20	0.19	0.24
Raspberries, Canned	0.10	0.10	0.00	0.07	0.07	80.0	80.0	0.10	90.0	0.05	0.04	0.04	0.03	0.03	0.03	0.03
Raspberries, Frozen	0.24	0.21	0.14	0.21	0.23	0.26	0.24	0.32	0.28	0.24	0.18	0.24	0.18	0.17	0.25	0.24
Strawberries, Fresh	0.77	0.80	99.0	0.67	99.0	0.49	0.73	0.75	98.0	98.0	0.77	0.88	0.82	0.85	0.92	1.04
Strawberries, Canned	80.0	0.07	0.07	0.07	0.00	90.0	0.07	90.0	0.07	90.0	0.05	0.05	0.04	0.03	0.03	0.04
Strawberries, Frozen	0.40	0.47	0.49	0.56	0.54	0.71	0.56	0.70	0.56	0.62	0.67	89.0	0.64	0.64	0.65	0.72
Unspecified																
Canned Fruit	1.44	1.46	1.35	1.36	1.36	1.82	1.86	1.44	2.10	1.71	1.71	1.51	1.66	1.67	1.72	1.26
Jams, Jellies,																
Marmalade	2.91	2.93	2.96	2.88	2.84	3.02	2.83	2.74	2.43	2.43	2.25	2.25	2.18	2.10	2.10	1.95

<sup>a</sup> Revised series.

<sup>b</sup> Retail weight.

Source: Statistics Canada, Apparent Per Capita Domestic Disppearance of Foods in Canada.

b 1960-75
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TABLE H.

h ed nn nned zzen ind		700	COCI	1704	1962	1966	1961	1968	1969	1970	1971	1972	1973	1974	1975
77							kg								
77	4.30	3.90	4.68	4.33	4.30	4.34	4.41	4.59	4.31	4.54	4.72	4.46	4.90	5.18	4.41
7	5.16	5.51	5.41	5.65	5.78	5.59	6.20	6.28	80.9	6.82	6.62	6.81	7.33	7.84	8.30
77	0.39	0.35	0.30	0.29	0.33	0.29	1	0.24	0.24	0.23	0.27	0.30	0.27	0.30	0.28
77	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	j	}	1	-
7	0.00	0.00	0.04	0.03	0.03	0.03	0.03	0.04	0.05	0.05	0.05	90.0	90.0	0.07	0.05
77	0.16	0.14	0.13	0.10	0.11	0.10	0.10	0.23	0.09	0.12	0.10	0.11	0.14	0.12	0.15
	0.17	0.17	0.16	0.16	0.20	0.19	0.19	0.17	0.17	0.19	0.21	0.22	0.24	0.23	0.20
וומ	0.01	0.01	0.01	0.02	0.01	0.03	0.01	0.00	0.00	0.00	0.02	0.02	0.01	0.01	0.00
	0.56	0.51	0.55	0.46	0.84	0.61	0.49	0.52	0.61	0.44	0.49	0.64	0.63	0.53	0.49
beans, Canned	1.48	1.58	1.49	1.45	1.51	1.72	1.76	1.65	1.80	1.61	1.77	1.56	1.69	1.68	1.48
Beans, Frozen 0.10	0.14	0.25	0.33	0.25	0.37	0.28	0.30	0.28	0.31	0.34	0.38	0.35	0.33	0.39	0.32
rozen	0.01	0.01	0.05	0.03	0.01	and the same of th	0.05		0.03	0.01	0.03	0.02	1	0.01	00.00
Beets, Fresh 0.61	0.78	0.83	0.59	0.63	0.40	0.42	0.24	0.29	0.30	0.28	0.36	0.15	0.12	0.13	0.21
Beets, Canned 0.29	0.30	0.29	0.33	0.37	0.37	0.47	0.32	0.38	0.35	0.37	0.36	0.38	0.36	0.34	0.28
	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.26	0.24	0.26	0.34	0.41	0.50	0.51	0.63
u	0.00	0.02	0.05	0.05	0.04	90.0	0.07	0.07	0.10	0.13	0.09	0.12	0.14	0.15	0.11
Brussels Sprouts, Fresh 0.00	0.11	0.10	0.10	0.13	0.05	0.10	0.07	0.10	0.08	0.08	0.07	0.08	0.10	0.08	0.10
Brussels Sprouts, Frozen 0.00	0.00	0.00	0.04	90.0	0.03	0.03	0.03	0.07	0.05	0.08	0.08	0.08	0.09	0.07	0.09
Carrots, Fresh 8.08	6.29	7.48	6.87	6.72	6.07	99.9	6.63	5.42	6.59	6.70	6.07	5.72	5.46	6.51	7.89
Carrots, Canned 0.24	0.22	0.37	0.12	0.34	0.37	0.39	0.40	0.44	0.28	0.39	0.47	0.46	0.58	0.50	0.44
Carrots, Frozen 0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.19	0.17	0.23	0.26	0.30	0.35	0.49	0.49
														- con	continued -

TABLE H.4. PER-CAPITA DISAPPEARANCE<sup>a</sup> OF VEGETABLES,<sup>b</sup> 1960-75 (concluded)

	00/1	1961	1962	1963	1964	1965	1966	1961	1968	6961	1970	1971	1972	19/3	19/4	1975
								K	50							
Cauliflower, Fresh	96.0	96.0	1.01	0.93	0.88	0.91	0.73	0.80	0.81	0.94	0.95	0.82	0.83	0.82	0.87	0.98
Cauliflower, Frozen	0.00	0.00	0.00	0.00	0.00			0.00	İ	0.05	0.08	0.05	0.04	0.05	0.05	90.0
Celery, Fresh	3.23	3.35	2.98	3.17	3.04	3.08	2.94	3.22	3.22	3.13	3.15	3.37	3.09	3.41	3.35	3.60
Corn, Fresh	1.43	2.05	1.86	3.30	1.88	1.87	1.93	1.76	2.35	2.06	2.65	1.65	0.79	2.03	1.66	1.98
Corn. Canned	2.23	2.12	2.37	2.30	2.15	2.36	2.49	2.20	2.59	2.19	1.94	2.20	2.22	2.46	2.48	2.32
Corn, Frozen	0.19	0.26	0.25	0.28	0.29	0.35	0.37	0.30	0.44	0.29	0.37	0.36	0.39	0.36	0.25	0.20
Cucumbers, Fresh		1.15	0.81	0.85	0.91	0.65	0.84	0.48	1.19	1.33	1.37	1.23	0.80	1.26	1.52	1.32
Onions. Not Processed	5.07	4.88	5.51	5.35	4.77	5.55	5.38	5.10	5.56	5.70	5.01	5.48	5.04	5.36	5.69	6.13
Parsnips, Fresh	0.28	0.32	0.32	0.30	0.22	0.30	0.23	0.18	0.28	0.20	0.18	0.24	0.17	0.16	0.13	0.15
Peas, Fresh	90.0	0.01	0.10	0.03	0.03	0.08	0.02	0.02	0.02	0.03	0.00	0.16	0.20	0.38	0.02	0.05
Peas, Canned	2.76	2.62	2.87	2.61	2.75	2.71	2.76	2.76	2.89	2.11	2.18	2.32	2.26	2.13	2.13	1.87
Peas, Frozen	0.82	0.87	0.62	0.84	0.89	0.98	1.05	1.05	1.18	1.06	1.09	1.03	1.08	1.14	1.14	1.11
Peppers, Fresh	0.11	0.48	0.51	0.58	0.47	0.52	0.56	0.73	0.78	06.0	0.73	0.79	1.02	96.0	0.95	1.16
Pumpkin and																
Squash, Canned	0.15	0.19	0.18	0.18	0.15	0.16	0.11	0.00	0.00		0.12	0.15	0.00	0.15	0.09	0.08
Radishes, Fresh	0.20	0.27	0.23	0.19	0.21	90.0	90.0	0.29	0.34	0.36	0.39	0.43	0.44	0.53	0.64	0.59
Rutabagas, Fresh	-		2.12	2.43	3.03	3.09	2.51	1.93	2.80	1.58	3.34	1.96	2.09	2.20	2.48	2.35
Unspecified																
Canned Vegetables	0.53	69.0	0.53	0.51	0.61	0.77	0.56	0.00	0.00	0.00	1.08	1.17	1.06	1.23	1.26	0.47

<sup>a</sup> Revised series.

<sup>b</sup> Retail weight.

## APPENDIX I

PER-CAPITA WEEKLY FOOD PURCHASES BY FAMILY INCOME QUINTILE GROUP, CANADA, 1969 AND 1974

Table I.1

TABLE 1.1. PER-CAPITA WEEKLY FOOD PURCHASES BY FAMILY INCOME QUINTILE GROUP, CANADA, 1969 AND 1974

TABLE 1.1: TENTALITA WEEKEL 100E 100	1969		Family Income Quintile Group	ne Quintile	Group		1974		Family	Family Income Quintile Group	intile Grou	ď
Commodity	All	lst	2nd	3rd	4th	5th	All	1st	2nd	3rd	4th	5th
						kg/week	×					
Dairy Products												
Milk Fresh Milk Homogenized, Whole	1.188	1.195	1.215	1.294	1.222	1.077	0.853	0.937	0.879	096.0	0.888	0.692
Low-Fat Milk, 2%, 1%	909.0	0.310	0.484	0.629	0.622	0.790	0.699	0.517	0.585	0.678	0.743	0.851
Skim Milk	0.077	0.051	0.046	0.067	0.068	0.011	0.007	0.005	0.032	0.010	0.013	0.009
Chocolate Milk Unspecified Milk	0.006	0.019	0.002	0.000	0.004	0.004	0.072	0.097	0.092	0.067	890.0	0.050
Other Dairy Products	(	0	010	010	0000	0000	0.053	0.001	0.004	0.005	0.008	0.006
Buttermilk	0.010	0.015	0.010	0.010	0.00	0.050	0.054	0.090	0.074	0.050	0.044	0.043
Condensed and Evaporated Milk	0.072	0.031	0.017	0.021	0.028	0.018	0.015	0.014	0.014	0.016	0.019	0.011
Half and Half, Cereal Cream	0.020	0.027	0.015	0.016	0.017	0.025	0.016	0.030	0.015	0.011	0.010	0.020
Cream - Fresh, Whipping, Table	0.010	0.009	0.009	0.009	0.007	0.015	0.009	0.008	0.010	0.008	0.0070	0.010
Ice Cream, Sherbet, Iced Milk	0.080	0.063	0.068	0.083	0.090	0.086	0.062	0.049	0.057	0.003	0.0.0	0.004
Sour Cream, Chip Dips	0.004	0.004	0.003	0.002	0.004	0.000	0.007	0.000	0000	0.000	0.000	0000
All Other Cream	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.012	0.020	0.019
Yoghurt	0.000	0.000	0.000	0.000	0.000	0.121	0.086	960.0	0.092	0.032	980.0	980.0
Butter	0.118	0.010	0.029	0.033	0.033	0.031	0.029	0.032	0.029	0.026	0.029	0.031
Dackaged Process Cheese Spreads	0.022	0.016	0.021	0.024	0.021	0.026	0.031	0.029	0.030	0.030	0.032	0.033
Cottage Cheese	0.018	0.024	0.012	0.014	0.015	0.021	0.019	0.027	0.019	0.012	0.017	0.020
Other Cheese	0.021	0.034	0.018	0.018	0.018	0.024	0.022	0.016	0.016	0.022	0.023	0.027
Unclassified Cheese	0.004	0.005	0.004	0.005	0.003	0.005	0.025	0.030	0.025	0.025	0.029	0.027
Other Dairy Products	0.016	0.014	0.020	0.013	0.015	0.019	0.026	0.001	0.003	700.0	0.002	0.003
į												
Eggs Food Grade A. Extra Large and Large	0.145	0.155	0.144	0.152	0.146	0.138	0.118	0.114	0.098	0.094	0.106	0.167
Other Grades and Sizes	0.047	0.053	0.047	0.056	0.050	0.039	0.034	0.032	0.026	0.023	0.062	0.061
Unclassified	0.033	0.038	0.025	0.032	0.034	0.032	0.001	100.0	0000			
Bakery Products	1	i c	1	0	6	3630	7020	0.646	9690	0.606	0.589	0.531
Bread Wefers	0.703	0.710	0.714	0.769	0.107	0.102	0.078	0.084	0.078	0.080	0.076	0.078
Crackers	0.021	0.028	0.020	0.020	0.022	0.020	0.029	0.036	0.025	0.027	0.029	0.028
Pastries, Pies	0.000	0.000	0.000	0.000	0.000	0.000	0.021	0.021	0.019	0.016	0.023	0.024
Cakes, Chocolate Eclairs, Puddings	0.080	0.081	0.075	0.085	0.077	0.080	0.053	0.033	0.056	0.056	0.069	0.076
Rolls and Buns, Mullins, Crumpers Denothings	0.015	0.010	0.015	0.019	0.000	0.014	0.021	0.008	0.011	0.011	0.061	0.011
Confined												

(continued)	
OOD PURCHASES BY FAMILY INCOME QUINTILE GROUP, CANADA, 1969 AND 1974 (co	
OUP, CANADA,	
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	1969		amily Inco	Family Income Quintile Group	e Group		1974		Family	Income Q	Family Income Quintile Group	dn
Commodity	AII	lst	2nd	3rd	4th	5th	All	1st	2nd	3rd	4th	5th
Council Dundands						kg/week	ek					
Cerval Products Baby Cereal Breakfast Cereal Prepared Breakfast Cereal to be Cooked	0.002 0.045 0.019	0.001 0.044 0.026	0.004 0.038 0.018	0.003 0.047 0.023	0.001	0.001 0.046 0.017	0.002 0.054 0.017	0.000 0.056 0.029	0.004 0.053 0.017	0.002 0.051 0.016	0.001 0.058 0.014	0.001 0.056 0.015
Flour Mixes — Cake, Pastry Other Mixes — Pancake, Pudding, etc. Pasta Products — Macaroni, Spaghetti Rice Other Cereals	0.086 0.019 0.008 0.004 0.000	0.099 0.010 0.006 0.040 0.000	0.083 0.017 0.005 0.009 0.000	0.097 0.020 0.009 0.008 0.000 0.049	0.090 0.021 0.008 0.045 0.000 0.019	0.069 0.019 0.009 0.003 0.000 0.023	0.094 0.023 0.005 0.060 0.046 0.009	0.112 0.017 0.006 0.060 0.071 0.012	0.106 0.019 0.004 0.069 0.039 0.009	0.092 0.023 0.006 0.072 0.049	0.089 0.029 0.006 0.053 0.038	0.077 0.023 0.005 0.051 0.051
Meat and Poultry Beef Loin Cuts Round or Rump Cuts Rib Cuts Shoulder Cuts Brisket, Flank Stewing Beef Hamburger, Minced Beef Other Beef Unspecified Beef	0.093 0.075 0.053 0.010 0.015 0.013 0.022 0.099	0.075 0.075 0.036 0.035 0.016 0.019 0.019	0.084 0.080 0.041 0.047 0.010 0.016 0.018	0.088 0.065 0.045 0.046 0.009 0.017 0.149 0.015	0.104 0.081 0.058 0.044 0.007 0.014 0.014 0.035	0.100 0.076 0.067 0.049 0.007 0.013 0.014	0.075 0.092 0.054 0.053 0.014 0.032 0.017	0.049 0.081 0.045 0.046 0.016 0.029 0.013	0.067 0.072 0.049 0.053 0.015 0.015 0.012	0.071 0.081 0.045 0.014 0.028 0.168 0.017	0.083 0.102 0.055 0.052 0.016 0.034 0.171 0.018	0.083 0.108 0.060 0.054 0.013 0.034 0.0165 0.018
Pork Bacon Ham Smoked, Cooked and Uncooked Cottage Roll, Smoked Picnic Ham, Fresh Loin, Fresh Shoulder, Fresh Sausage Other Pork Unspecified Pork	0.055 0.058 0.011 0.006 0.070 0.022 0.034 0.024	0.052 0.061 0.007 0.004 0.063 0.017 0.037 0.021	0.048 0.053 0.009 0.005 0.075 0.024 0.036 0.019	0.057 0.053 0.009 0.006 0.005 0.021 0.041	0.061 0.063 0.015 0.005 0.007 0.024 0.032 0.025	0.055 0.061 0.001 0.006 0.028 0.028 0.038	0.047 0.043 0.011 0.017 0.035 0.038	0.0044 0.0059 0.0034 0.0034 0.0034	0.047 0.010 0.018 0.037 0.038	0.043 0.036 0.015 0.015 0.027 0.035 0.004	0.045 0.048 0.012 0.016 0.035 0.032 0.040	0.048 0.008 0.002 0.002 0.041 0.026 0.049
Other Meats Veal Lamb and Mutton Liver — All Kinds (except chicken) Bologna Wieners	0.027 0.018 0.017 0.019 0.034	0.015 0.015 0.019 0.026 0.022	0.032 0.014 0.018 0.021 0.031	0.038 0.014 0.018 0.022 0.042	0.014 0.019 0.013 0.018	0.031 0.024 0.017 0.016 0.034	0.017 0.011 0.014 0.016 0.034	0.013 0.014 0.018 0.017 0.030	0.014 0.010 0.019 0.020 0.036	0.017 0.008 0.015 0.017 0.034	0.014 0.011 0.015 0.015	0.020 0.013 0.012 0.012 0.032

TABLE 1.1. PER-CAPITA WEEKLY FOOD PURCHASES BY FAMILY INCOME QUINTILE GROUP, CANADA, 1969 AND 1974 (continued)

1969	1969	Fa	umily Incon	Family Income Quintile Group	Group		1974		Family	Family Income Quintile Group	untile Grou	dı
Commodity	AII	lst	2nd	3rd	4th	5th	All	1st	2nd	3rd	4th	5th
Other Cooked Meats Canned Meats Other — Heart, Game, Kidney, etc. Packaged Sliced Meats	0.032 0.015 0.010 0.014	0.032 0.017 0.014 0.017	0.032 0.018 0.009 0.009	0.043 0.018 0.008 0.0014	0.032 0.018 0.008 0.015	kg/week 0.025 0.009 0.012 0.015	k 0.059 0.009 0.016 0.007	0.058 0.010 0.023 0.007	0.053 0.009 0.016 0.004	0.058 0.010 0.024 0.008	0.073 0.009 0.013 0.007	0.055 0.009 0.012 0.008
Poultry Chicken, Fresh, Frozen, Cut Up Turkey, Fresh, Frozen, Cut Up Other Poultry	0.201 0.068 0.015	0.218 0.041 0.017	0.203 0.068 0.013	0.191 0.068 0.021	0.191 0.072 0.008	0.201 0.079 0.015	0.187 0.074 0.014	0.244 0.050 0.026	0.182 0.070 0.009	0.191 0.059 0.009	0.172 0.082 0.017	0.178 0.093 0.014
Fish Cod, Fresh, Frozen, Smoked Halibut, Fresh, Frozen Salmon, Fresh, Frozen, Smoked Canned Salmon Canned Tinna Other Canned Fish and Seafood Other Fish and Seafood Unspecified Fish	0.008 0.001 0.004 0.012 0.005 0.008 0.001	0.010 0.001 0.003 0.009 0.004 0.009 0.002	0.009 0.002 0.003 0.010 0.005 0.008 0.001	0.009 0.002 0.004 0.013 0.005 0.008 0.001	0.007 0.001 0.004 0.013 0.005 0.008 0.000	0.007 0.001 0.004 0.007 0.009 0.002	0.005 0.009 0.009 0.009 0.001 0.001	0.009 0.001 0.019 0.009 0.009 0.001 0.017	0.007 0.003 0.003 0.008 0.006 0.006	0.005 0.000 0.004 0.007 0.008 0.001 0.001	0.004 0.000 0.004 0.009 0.007 0.001 0.001	0.004 0.000 0.004 0.010 0.007 0.001 0.001
Fats and Oils Margarine Vegetable Shortening	0.059	0.070	0.079	0.060	0.054	0.045	0.080	0.104	0.082	0.079	0.084	0.069
Butter Spread, Low Fat Margarine Spread Lard Oil — Corn, Peanut, Olive, etc. Salad Dressing, and Mayonnaise Peanut Butter Other Fats and Oils	0.000 0.007 0.026 0.019 0.018	0.000 0.007 0.042 0.012 0.010	0.001 0.005 0.023 0.016 0.015 0.001	0.000 0.011 0.025 0.021 0.023	0.001 0.007 0.024 0.018 0.023 0.002	0.000 0.006 0.023 0.024 0.016 0.001	0.000 0.006 0.055 0.023 0.023 0.000	0.000 0.006 0.047 0.019 0.019 0.000	0.000 0.011 0.058 0.018 0.017 0.002	0.000 0.008 0.067 0.022 0.026 0.000	0.000 0.006 0.049 0.023 0.027 0.000	0.000 0.003 0.054 0.028 0.024 0.000
Beverages Coffee, Regular Coffee, Instant Tea, Instant, Iced Tea Mix Soft Drinks Other Non-Alcoholic Drinks	0.026 0.010 0.000 0.538 0.058	0.026 0.018 0.000 0.506 0.042	0.023 0.011 0.000 0.540 0.040	0.023 0.009 0.000 0.571 0.075	0.026 0.009 0.000 0.551 0.056	0.030 0.008 0.000 0.541 0.064	0.024 0.011 0.001 0.585 0.074	0.025 0.016 0.001 0.511 0.054	0.022 0.013 0.001 0.588 0.074	0.023 0.011 0.000 0.577 0.073	0.023 0.009 0.001 0.616 0.070	0.028 0.011 0.001 0.598 0.086

TABLE 1.1. PER-CAPITA WEEKLY FOOD PURCHASES BY FAMILY INCOME QUINTILE GROUP, CANADA, 1969 AND 1974 (continued)

	1969		amily Inco	Family Income Quintile Group	Group		1974		Family	Income Q	Family Income Quintile Group	dı
Commodity	All	lst	2nd	3rd	4th	5th	All	1st	2nd	3rd	4th	Sth
						kg/week	¥					
Miscellaneous Groceries	0100	7700	0.00	0.051	3700	0.00	0,00	2000		000	0	000
Candy, Oum, Chocolate, Marshmallows	0.048	0.046	0.040	0.031	0.045	0.049	0.038	0.036	0.029	0.038	0.043	0.039
Sugar, All Kinds	0.210	0.193	0.227	0.203	0.230	0.181	0.212	0.287	0.248	0.211	0.212	0.166
Canned Puddings, Food Powders	0.023	0.023	0.025	0.025	0.023	0.021	0.023	0.020	0.019	0.024	0.026	0.023
Molasses, Honey, Syrup	0.031	0.046	0.027	0.030	0.033	0.026	0.029	0.034	0.033	0.025	0.024	0.034
Preserves, Jams, Marmalade	0.030	0.036	0.029	0.032	0.032	0.029	0.026	0.031	0.027	0.025	0.026	0.025
Salt, Spices, Mustard	0.029	0.034	0.029	0.032	0.031	0.026	0.029	0.039	0.032	0.027	0.027	0.026
Pickles, Relishes, Olives, Vinegar	0.034	0.037	0.033	0.039	0.032	0.034	0.055	0.051	0.046	0.055	0.062	0.055
Catsup, Chili Sauce, Gravy Mixes	0.041	0.031	0.047	0.046	0.041	0.037	0.056	0.048	0.057	0.058	0.064	0.054
Soup, Canned, Ready to Serve	0.130	0.144	0.130	0.137	0.123	0.128	0.118	0.131	0.131	0.110	0.113	0.117
Soup, Dehydrated	0.005	9000	900.0	900.0	0.004	0.005	900.0	900.0	900.0	900.0	900.0	0.005
Baby Food, Canned and Bottled	0.025	0.011	0.042	0.035	0.019	0.020	0.019	0.005	0.030	0.023	0.021	0.017
Fruit Drink Crystals	0.007	0.005	900.0	0.007	0.007	0.007	0.018	0.018	0.013	0.019	0.020	0.019
Non-Dairy Substitutes, Sundae Sauce	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.003	0.004	0.003	0.004
Sandwich Spreads	0.004	0.004	0.004	0.005	900.0	0.003	0.007	0.007	0.008	0.008	0.007	0.004
Conned and Dried Fruits												
Canned Deaches	0.031	0.030	0.034	0.031	0.034	0.007	0.000	0.030	0.00	0.001	0.010	0.003
Canned Pears	0.031	0.037	0.034	0.031	0.034	0.024	0.022	0.030	0.022	0.021	0.00	0.023
Canned Pineannle	0.014	0.01	0.017	0.013	0.014	0.011	0.010	0.011	0.014	0.007	0.000	0.01
Canned Cherries	0.000	0.010	0.010	0.00	0.00	0.01	0.013	0.011	0.01	0.00	0.010	0.01
Canned Plums	0.001	0.004	0.000	0.000	0.002	0.001	0.001	0.002	0.000	0.000	0.001	0.001
Canned Fruit Cocktail	0.021	0.020	0.023	0.017	0.025	0.019	0.017	0.015	0.021	0.015	0.016	0.020
Other Canned Fruits, Pie Fillings	0.033	0.034	0.024	0.032	0.034	0.039	0.023	0.024	0.021	0.019	0.024	0.027
Unspecified Canned Fruits	0.002	0.000	0.003	0.000	0.000	0.003	0.003	0.004	0.002	0.000	0.004	0.004
Canned Apple Juice	0.062	0.052	0.046	0.059	0.072	0.078	0.057	0.037	0.046	0.067	0.050	890.0
Canned Orange Juice	0.057	0.056	0.054	0.061	0.059	0.057	0.053	0.065	0.045	0.048	0.058	0.053
Other Canned or Bottled Fruit Juice	0.064	0.070	0.055	0.055	0.073	0.071	0.071	0.067	690.0	0.071	090.0	0.084
Unspecified Canned Fruit Juice	0.007	0.005	0.005	0.009	0.005	0.008	0.012	9000	0.013	0.018	0.005	0.014
Kaisins	0.008	0.007	0.008	0.008	0.008	0.000	0.006	0.007	0.004	0.007	0.006	0.000
Other Dried and Preserved Fruits	0.009	0.014	0.009	0.009	0.007	0.008	0.010	0.018	0.009	0.007	0.009	0.010

TABLE 11 DER-CAPITA WEEKLY FOOD PURCHASES BY FAMILY INCOME OUINTILE GROUP, CANADA, 1969 AND 1974 (continued)

	1969	Ĭ.	Family Income Quintile Group	ne Quintile	Group		1974	and the state of t	Family	Income Q	Tamily Income Quintile Group	dr
Commodity	AII	lst	2nd	3rd	4th	5th	All	İst	2nd	3rd	4th	5th
						kg/week	, k					
Canned and Dried Vegetables	0.054	0.053	0.055	0.061	0.054	0.047	0.033	0.029	0.042	0.029	0.032	0.032
Canned Corn, Kernel or Creamed	0.047	0.047	0.052	0.049	0.044	0.046	0.033	0.028	0.038	0.030	0.035	0.031
Canned Baked Beans	0.039	0.034	0.039	0.043	0.039	0.037	0.025	0.025	0.024	0.022	0.032	0.023
Other Canned Beans	0.039	0.035	0.034	0.042	0.045	0.040	0.037	0.040	0.030	0.037	0.040	0.039
Canned Tomatoes	0.046	0.039	0.050	0.054	0.049	0.035	0.037	0.042	0.032	0.035	0.037	0.041
Other Canned Vegetables	0.044	0.049	0.041	0.041	0.040	0.050	0.039	0.045	0.039	0.034	0.041	0.041
Unspecified Canned Vegetables	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.000	0.002	0.000	0.000	0.000
Canned Tomato Juice	0.068	0.0/8	0.081	0.003	0.070	0.003	0.034	0.000	0.037	0.040	0.030	0.016
Other Vegetable Juices	0.010	0.012	0.012	0.00	0.012	0.003	0.006	0.008	0.006	0.005	0.005	0.007
Unspecified Beans	0.004	0.004	0.003	0.004	0.004	0.004	0.004	0.003	0.004	0.003	0.006	0.005
Fresh Fruits	0		0	9,00		0000	0,000	2460	0360	0.016	0000	700
Oranges	0.283	0.332	0.770	0.203	0.272	0.770	0.165	0.240	0.230	0.210	0.202	0.224
Bananas	0.170	0.201	0.137	0.1/4	2/1.0	0.737	0.10	0.130	0.170	0.100	0.216	0.735
Apples	0.240	0.203	0.230	0.249	0.220	0.237	0.210	0.230	0.115	0.170	0.170	0.105
Grapeiruit	0.132	0.202	0.113	0.130	0.139	0.170	0.100	0.130	0.11.0	0.076	0000	0.100
Strawberries	0.012	0.00	0.015	0.00	0.009	0.018	0.012	0.013	0.019	0.011	0.009	0.010
Raspberries	0.001	0.001	0.000	0.001	0.000	0.000	0.001	0.000	0.007	0.000	0.001	0.001
Grapes	0.072	0.094	0.056	0.031	0.151	0.036	0.043	0.152	0.068	0.034	0.034	0.029
Peaches	0.020	0.014	0.019	0.020	0.019	0.020	0.018	0.017	0.022	0.014	0.019	0.018
Melons	0.017	0.021	0.019	0.014	0.014	0.016	0.016	0.016	0.018	0.011	0.015	0.018
Cherries	0.004	0.006	0.004	0.003	0.004	0.004	900.0	0.004	0.007	0.007	0.007	0.004
Plums	0.00	0.008	0.005	0.014	0.005	900.0	0.014	0.021	0.014	0.011	0.011	0.017
Pears	0.024	0.020	0.020	0.030	0.024	0.025	0.028	0.029	0.039	0.026	0.022	0.025
Other Fresh Fruit	0.061	0.049	0.077	0.051	0.057	0.063	0.077	0.059	0.083	0.072	0.074	0.089

TABLE 1.1. PER-CAPITA WEEKLY FOOD PURCHASES BY FAMILY INCOME QUINTILE GROUP, CANADA, 1969 AND 1974 (concluded)

	1969	1	Family Income Quintile Group	ne Quintile	Group		1974		Family	Family Income Quintile Group	uintile Gro	dr
Commodity	All	1st	2nd	3rd	4th	5th	All	lst	2nd	3rd	4th	5th
Food Vonetlas						kg/week	*					
Fresh Fegelables Potatoes	0.768	0.710	0.839	0.756	0.780	0.780	0.616	0.717	0.713	0.587	0.616	0.537
Tomatoes	0.094	0.108	0.089	0.086	0.096	0.098	0.095	0.114	0.113	0.075	0.094	0.094
Lettuce	0.072	0.070	0.064	0.064	0.073	0.083	0.082	960.0	0.077	0.071	0.083	0.086
Carrots	0.103	0.118	0.102	0.091	0.098	0.097	0.093	0.126	0.094	0.075	0.098	0.086
Celery	0.045	0.053	0.039	0.042	0.044	0.049	0.039	0.049	0.042	0.031	0.038	0.038
Onions, Regular and Spanish	0.074	0.088	0.084	0.073	0.067	0.064	0.077	0.097	0.075	0.067	0.068	0.084
Cabbage	0.055	0.058	0.059	0.051	0.054	0.057	0.044	0.054	0.047	0.036	0.046	0.043
Cauliflower	0.010	0.016	0.007	0.008	0.009	0.013	0.010	0.010	0.007	0.009	0.010	0.012
Turnips Reans Green and Vellow	0.034	0.044	0.030	0.037	0.00	0.029	0.023	0.031	0.030	0.00	0.011	0.020
Corn	0.023	0.021	0.016	0.016	0.021	0.030	0.018	0.013	0.018	0.014	0.021	0.021
Cucumbers	0.023	0.022	0.022	0.021	0.022	0.028	0.024	0.023	0.027	0.018	0.025	0.029
Mushrooms	0.004	0.007	0.002	0.003	0.003	0.004	0.008	0.005	900.0	900.0	0.009	0.010
Other Root and Gourd Vegetables	0.040	0.034	0.038	0.031	0.036	0.052	0.056	0.052	0.065	0.046	0.054	0.061
Other Leaf and Stalk Vegetables	0.025	0.024	0.021	0.019	0.027	0.031	0.034	0.033	0.030	0.027	0.038	0.041
Frozen Foods												
Frozen Strawberries	0.004	0.003	0.002	0.004	0.003	0.004	0.003	0.002	0.003	0.003	0.003	0.003
Frozen Raspberries	0.000	0.001	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.001
Other Frozen Fruits	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.001
Frozen Orange Juice	0.017	0.014	0.010	0.011	0.018	0.029	0.029	0.018	0.018	0.023	0.028	0.046
Other Frozen Juices	0.000	0.003	0.004	0.004	0.007	0.00	0.007	0.004	0.004	0.00	0.003	0.011
Frozen Casa Bone	0.013	0.000	0.010	0.000	0.010	0.020	0.011	0.000	0.000	0.00	0.005	0.00
Frozen Dotatoes	0.004	0.003	0.002	0.002	0.00	0.000	0.004	0.002	0.029	0.032	0.026	0.021
Frozen Corn	0.004	0.001	0.002	0.003	0.006	0.006	0.004	0.002	0.002	0.004	0.007	0.006
Other Frozen Vegetables	0.014	0.010	0.012	0.011	0.012	0.019	0.014	0.010	0.014	0.011	0.016	0.018
Frozen Fruit Pies	0.000	0.000	0.000	0.000	0.001	0.001	0.000	0.000	0.000	0.001	0.001	0.000
Frozen Cakes	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.001	0.002	0.002	0.003	0.005
Frozen Meat and Poultry Dinners	0.009	0.009	0.007	0.008	0.011	0.010	0.015	0.013	0.016	0.014	0.016	0.016
Prepared and Partially Prepared Dishes		6	(	0		0	9	6	000	0100	0	000
Macaroni and Other Dinners	0.042	0.038	0.044	0.047	0.044	0.037	0.040	0.043	0.037	0.030	0.047	0.009
Instant Mashed Potatoes	0.001	0.001	0.001	0.001	0.000	0.000	0.007	0.004	0.007	0.007	0.001	0.007
Salads, Colesiaw Spack Foods	0.003	0.004	0.004	0.002	0.002	0.003	0.004	0.003	0.026	0.034	0.003	0.004
Oliach I cous	720:0	6700										

Sources: Statistics Canada, 1969 Family Food Expendiure Survey and Statistics Canada, 1974 Urban Family Food Expendiur Survey.

# APPENDIX J

NUTRITIVE VALUE OF THE EDIBLE PORTION OF 100 g OF FOOD AS PURCHASED: FOOD DISAPPEARANCE DATA

Table J.1

TABLE J.1. NUTRITIVE VALUE OF THE EDIBLE PORTION OF 100 g OF FOOD AS PURCHASED; FOOD DISAPPEARANCE DATA

Commodity	Source	Specification	Food		Pro- tein	Fat	Carbo- hydrate	Cal- cium	Phos- phorus	Iron	Vita- min A	Thia- mine	Ribo- flavin	Niacin	Ascor- bic Acid	Total Folate
			cal	R	20	500	50	mg	mg	gm	RE	mg	mg	ZE	mg	п
Cereals Wheat Flour	2439	All purpose, enriched	366.8	1516.6	10.5	0.1	76.7	16.1	87.6	2.9a	0.0	0.44	0.26	5.64	0.0	21.4
Rye Flour Oatmeal and Rolled Oats	1923	Onemicaled Medium Dry form	352.8	1458.4	11.4	1.7	75.4	27.2	264.0 408.7	2.6	0.0	0.29	0.03	4.6	0.0	78.2
Pot and Pearl Barley	146	Pearled pot or Scotch	350.7	1450.2	9.6	=	77.8	34.2	292.3	2.7	0.0	0.20	0.07	5.7	0.0	19.6
Corn Flour and Meal Buckwheat Flour	887	De-germed, unenriched	366.9	1516.8	7.9	1.2	7.9	6.0	99.8	-:-	133.0	0.14	0.05	0.1	0:0	22.0
Rice Breakfast Food	1877	White, raw, unenriched	365.9	1512.6	6.7	0.4	81.0	24.1	94.7	0.8	0.0	0.07	0.03	1.6	0.0	29.0
		corn, rice, and oat types	359.8	1487.5	8.9	1.3	80.1	30.8	159.5	9.6a	0.0	$1.31^{a}$	2.44a	14.7a	0.0	29.1
Sugar and Syrup	2230	Beet oranulated refined	3880	1604 4	0.0	0	100.2	0	0	-	0	00	000	0	0	0
Maple Sugar	2234		350.7	1450.2	3	3	90.7	144.2	11.1	1.4	2	8	3	3	0.0	0.0
Honey Other	1134 2051	Strained or extracted Corn syrup (glucose)	306.4	1266.8	0.3	0.0	82.9	5.0	6.0	0.5	0.0	0.00	0.03	0.3	0.0	1.5
	1342	Barbados molasses	273.1	1129.3	0.0	0.0	70.5	246.9	50.4	0.0	0.0	0.05	0.20	0.0	0.0	0.0
Pulses and Nuts Dry Beans	154	Mature seeds white raw	3427	14166	22.4	16	819	145.1	428.4	7.8	0	0.64	0.33	27		1310
Baked Canned Beans	156	Pork and tomato sauce	122.9	508.4	6.1	2.6	19.1	54.4	92.7	0 00	13.1	0.07	0.03	1.6	2.0	24.0
Dry Feas Peanuts	1331 1492B	w noie, raw Raw, shelled	568.5	2350.2	24.2	47.8	18.7	69.5	342.7 404.2	2.1	12.0	0.74	0.29	7.3	0.0	33.6
Iree Nuts		Weighted average, shelled and not shelled	516.1	2133.7	12.7	48.5	16.2	100.3	345.8	3.0	3.6	0.36	0.22	8.4	9.0	50.8
Fats and Oils	100	V. V. V. V. V. V. V. V. V. V. V. V. V. V	100	4 0000	C	,	-		-	C C	0.00				(	(
Margarine Lard	1241	Vitamin A added	909.2	3758.6	0.0	81.6 100.8	0.0	0.0	1.6.1	0.0	10/6.5	0.00	0.00	0.0	0.0	0.0
Shortening and Shortening Oils	666	Fats (cooking),	891.1	36837	0 0	100 8	0 0	0 0	0.0	0.0	00	0 00	000	0	0	0 0
Salad Oils Butter <sup>b</sup>	1401	Salad or cooking	891.1	3683.7	0.0	100.8	0:0	0.0	0.0	0.0	0.097	0.00	0.00	3	0.0	0.0
Fruits									0.1	-	2	0.0	000		2.0	0.7
Tomatoes and Citrus Fruit																
Tomatoes, Fresh Tomatoes, Canned	2282A 2284	Ripe, raw, whole Regular pack	22.1	91.7	0.9	0.2	7.4	13.1	27.2	0.5	90.7	0.05	0.03	0.8	23.1	3.0
I omato Juice	2288	Regular pack Average paste	19.1	79.1	6.0	0.1	4.3	7.0	0.0	6.0	9.08	0.05	0.03	 8.	16.1	10.7
Pulp, Paste and Purée Tomato Catsup	2296	Purée Bottled	61.0	252.4	2.5	0.2	13.8	20.1	52.4	2.6	246.9	0.14	0.08	2.2	41.3	8.8
Used	2282A	Ripe, raw, whole	22.1	91.7	1.1	0.2	4.7	13.1	27.2	0.5	200.7	0.05	0.03	8.0	23.1	5.6
															- con	- continued -

TABLE J.1. NUTRITIVE VALUE OF THE EDIBLE PORTION OF 100 g OF FOOD AS PURCHASED: FOOD DISAPPEARANCE DATA (continued)

Expending Free House	Commodity	Source	Specification	Food		Pro- tein	Fat	Carbo- hydrate	Cal- cium	Phos- phorus	Iron	Vita- min A	Thia- mine	Ribo- flavin	Niacin	Ascor- bic Acid	Total Folate
131   132				cal	KJ	0.0	5.0	50	mg	mg	шв		mg	gm	Z E	mg	щ
1372   Weighfield Averaged of Canned   4.0   20.56   8   1.1   100   18.1   0.4   0.0   0.0   0.0   0.0   0.1   1.2	Grapefruit, Fresh Lemons, Fresh Oranges, Fresh Grapefruit Juice	1053 1243 1420 1071	Raw, all varieties Raw, Raw, all varieties Canned, unsweetened	20.6 18.2 36.0 41.3	85.3 75.3 170.8	0.2 0.7 149.1 0.5	0.0		8.0 79.0 30.1 8.0 7.0	8.0 10.8 14.7 14.1	0.1 0.0 0.1 5.0 0.0	4.0 1.3 14.7 1.0 2.0	0.01 0.02 0.07 0.03 0.03	0.01	0.0 0.2 0.2 0.2	19.1 0.0 36.8 34.2 42.3	5.0 17.6 4.3 3.5
134   Freshly harvested and stored,   193   179.3   0.6   0.2   10.1   10.0   15.1   0.3   10.0   0.	Orange Juice	1432	Weighted Averaged of canned sweetened and unsweetened	49.0	202.6	0.8	0.2	1.4	10.0	18.1		20.1	0.07	0.01	0.3	40.3	13.0
134   Freshly harvested and stored,   467   1933   0.1   0.4   11.6   5.6   8.0   0.5   7.0   0.0   0.0   0.0   1.0   0.0	Orange and Grapefruit Juice	1079	Canned	43.3	179.3	9.0	0.2	10.1	10.0	15.1		10.0	0.05	0.01		34.2	8.7
2.5   Sweetened Cardinal System of Cardinal Control Cardinal Control Cardinal Control Cardinal Control Cardinal Control Cardina	Other Fruit Apples, Fresh	13A	Freshly harvested and stored,	46.7	1933	100	0.4	9.1	5.6	8.0	0.2	7.2		0.01	0.0	3.2	4.6
19   Weighted average of dried   301.3   1245.5   1.1   1.7   77.4   33.5   55.9   1.7   38.0   0.04   0.10   0.0   1.0     29   Canned sweetened   91.7   379.3   0.2   0.1   24.0   4.0   5.0   0.5   4.0   0.01   0.0   0.0   1.0     29   Appleasure, sweetened   91.7   379.3   0.2   0.1   24.0   4.0   5.0   0.5   4.0   0.01   0.0   0.0   1.0     30   Appleasure, sweetened   91.7   379.3   0.2   0.1   24.0   4.0   5.0   0.5   4.0   0.01   0.0   0.0   1.0     42   Sweetened   98.7   4.08.4   0.7   0.1   22.1   11.1   15.1   0.3   175.4   0.01   0.01   0.0   0.0     42   Sweetened   98.7   4.08.4   0.7   0.1   25.3   10.0   19.1   0.9   169.3   0.0   0.0   0.0     42   Sweetened   98.7   4.08.4   0.7   0.1   25.3   10.0   19.1   0.9   169.3   0.0   0.0   0.0     43   Extra heavy syrup pack   57.4   2.27.3   3.3   0.1   15.0   3.0   17.5   0.0   0.0   0.0   0.0     44   Extra heavy syrup pack   57.4   2.29.1   0.7   0.2   17.2   0.0   0.0   0.0   0.0   0.0     45   Extra heavy syrup pack   57.4   2.29.1   0.7   0.7   13.1   0.8   4.0   0.0   0.0   0.0   0.0     45   Extra heavy syrup pack   57.4   2.29.1   0.7   0.2   17.1   0.0   4.5   0.0   0.0   0.0   0.0   0.0     45   Extra heavy syrup pack   57.4   2.29.1   0.7   0.2   17.1   0.0   4.0   0.0   0.0   0.0   0.0   0.0   0.0     45   Extra heavy syrup pack   57.4   2.29.1   0.7   0.2   17.1   0.0   4.5   0.0   0.0   0.0   0.0   0.0   0.0   0.0     45   Extra heavy syrup pack   57.4   2.29.1   0.7   0.7   0.0	Apples, Canned Apple Juice Apples, Frozen	29 27 24	not pared Sweetened Canned or bottled, fortified Sliced, sweetened	91.7	379.3 195.7 387.5	0.2	0.0	24.0 12.0 24.4	4.0 6.0 5.0	5.0 9.0 6.0	0.5	4.0 9.0° 2.0		0.01	0.0 0.1 0.2	1.0 35.2 <sup>a</sup> 7.0	3.5
Fe Used 13A Freshly harvested and stored, 46.7 193.3 0.1 0.4 11.6 5.6 8.0 0.2 7.2 0.02 0.01 0.0 3.2 and not pared 35 solidard liquids, 86.6 358.4 0.6 0.1 12.1 16.1 15.1 0.4 15.8 0.02 0.03 0.6 9.4 4.0 heavy syrup pack 48.3 199.7 0.9 0.1 12.0 17.5 0.4 12.8 0.03 0.03 1.0 6.7 1.2 14.1 14.1 15.1 0.9 16.2 17.5 0.4 12.8 0.03 0.03 1.0 6.7 1.2 14.1 14.1 15.1 0.9 16.2 17.5 0.4 12.8 0.03 0.03 1.0 6.7 1.2 12.9 1.2 12.0 1.2 12	Apples, Dried Applesauce Apple Pie Filling	19 21 29 29	Weighted average of dried and dehydrated Canned, sweetened Applesauce, sweetened	301.3 91.7 91.7	1245.5 379.3 379.3	0.2	0.1	77.4 24.0 24.0	33.5	55.9 5.0 5.0	0.5	38.0	0.04	0.10	0.0	10.1	3.5
Solids and liquids,   Sefe   358.4   O.6   O.1   22.1   11.1   15.1   O.3   175.4   O.0   O.0   O.0   O.8   28.2     A	Apples, Otherwise Used Apricots, Fresh	13A 30	Freshly harvested and stored, not pared raw	46.7	193.3	0.1	0.4	11.6	5.6	8.0	0.2	7.2 255.8	0.02	0.01	0.0	3.2	3.4
Harrow   H	Apricots, Canned Apricots, Frozen	35	solids and liquids, heavy syrup pack Sweetened	86.6	358.4	0.0	0.1	22.1	11.1	15.1	0.3	175.4	0.01	0.01	0.4	4.0	3.6
427 Unsweetened 55.4 229.1 0.7 0.3 15.7 10.0 15.1 0.8 45.5 0.04 0.07 0.3 9.1 co. sweet and dour dour dour dour dour dour dour dou	Bananas, Fresh Blueberries, Fresh Blueberries, Canned	141A 424 426	Raw, common, good quality Raw Extra heavy syrup pack	57.4 57.4 101.8	237.5	5.5 0.0 4.0	0.7	14.1	13.9	8.0	t 6.0	9.2	0.02	0.05	4.0	12.9	6.9
671B Sweet, heavy syrup pack, 81.6 337.5 0.9 0.2 20.6 15.1 13.1 0.3 6.0 0.01 0.01 0.2 3.0 no pits  674 Sour, red, sweetened 44.5 184.0 0.3 0.6 1.0 0.4 28.0 12.0 15.1 0.5 48.3 0.03 0.05 0.3 6.0 0.00	Blueberries, Frozen Cherries, Fresh	427	Unsweetened Weighted average of sweet and sour	59.3	245.3	1.1	0.2	14.7	20.1	17.4	0.3	45.5	0.04	0.07	0.3	9.1	6.8
1084   Raw, American type (slip-skin)   43.8   181.1   0.8   0.6   9.9   10.1   7.6   0.2   6.3   0.03   0.01   0.2   2.5     1088   Bottled or canned, fortified   66.5   275.1   0.2   0.0   16.7   11.1   12.0   0.3   8.0   0.01   0.2   15.9 <sup>a</sup>     1088   Bottled or canned, fortified   66.5   275.1   0.2   0.0   16.7   11.1   12.0   0.3   29.7   0.01   0.01   0.1   3.5     1242   Watermelon, raw   13.1   54.2   0.2   0.1   3.2   3.5   5.0   0.2   29.7   0.01   0.01   0.1   3.5     1479   Raw, peeled fruit   33.3   137.7   0.5   0.0   8.5   7.8   16.6   0.4   116.6   0.01   0.04   0.8     1483   Heavy syrup pack   88.7   366.6   0.4   0.1   22.7   4.0   13.1   0.5   65.5   0.01   0.03   0.7   40.3     1502A   Raw, including skin,   55.9   231.3   0.6   0.3   14.0   7.3   10.1   0.2   1.8   0.01   0.03   0.1   3.6   1	Cherries, Canned Cherries, Frozen	671B 674	Sweet, heavy syrup pack, no pits Sour, red, sweetened	81.6	337.5 466.6	0.9	0.2	20.6 28.0	15.1	13.1	0.3	6.0 48.3 3.8		0.01	0.2	3.0 6.0 10.6	7.5
1502A Raw, including skin, 55.9 231.3 0.6 0.3 14.0 7.3 10.1 0.2 1.8 0.01 0.03 0.1 3.6 contin	Cranberries, Fresh Grapes, Fresh Melons, Fresh Peaches, Fresh Peaches, Canned	1084A 1088 2424 1479A 1483	Raw, American type (slip-skin) Concord, Niagara, good quality Bottled or canned, fortified Watermelon, raw Raw, peeled fruit Heavy syrup pack Sliced, sweetened	43.8 66.5 13.1 78.6 88.7	181.1 275.1 54.2 137.7 325.1 366.6	0.0 0.2 0.5 0.5 0.5	0.0	9.9 16.7 3.2 8.5 20.2 22.7	10.1 11.1 3.5 7.8 4.0	7.6 12.0 5.0 16.6 12.0	0.2 0.3 0.4 0.3 0.3	6.3 8.0 29.7 116.6 43.3 65.5		0.01 0.01 0.04 0.01 0.03	0.2 0.2 0.1 0.8 0.6	2.5 15.9a 3.5 6.1 3.0 40.3	3.1 1.4 0.0 2.9 3.3 3.3
	Pears, Fresh	1502A	Raw, including skin, good quality	55.9	231.3		0.3	14.0	7.3	10.1		1.8	0.01	0.03	0.1	3.6 - con	10.3 tinued -

TABLE J.1. NUTRITIVE VALUE OF THE EDIBLE PORTION OF 100 g OF FOOD AS PURCHASED: FOOD DISAPPEARANCE DATA (continued)

Particular Carmed   1507   Heavy-syrup pack   216	161   Rawy syrup pack   76   316   0.2   0.2   197   8   mg mg mg   161   Rawy syrup pack   76   316   0.2   0.2   197   8   3   4   2   2   2   2   2   2   2   2   2	Commodity	Source	Specification	Food		Pro- tein	Fat	Carbo- hydrate	Cal-	Phos- phorus	Iron	vita- min A	Thia- mine	Ribo- flavin	Niacin	Ascor- bic Acid	Total Folate
1616   Heavy Syrup puck   24,6   216,6   216,7   21,1   21,6	1507   Heavy syrup pack   766   316.6   0.2   0.2   19.7   5.0   7.0   1616   Heavy syrup pack   74.5   212.0   0.2   0.1   7.1   8.9   4.2   1619   Heavy syrup pack   8.34   2.54   2.50.2   0.4   0.1   13.6   15.1   5.0   1639   Heavy syrup pack   8.35   2.50.2   0.4   0.1   13.6   15.1   5.0   1639   Heavy syrup pack   8.35   2.50.2   0.4   0.0   16.3   16.3   15.5   15.6   15.6   Heavy syrup pack   8.35   2.50.2   0.4   0.0   16.3   16.3   15.1   1				cal	kJ	50	50	0.0	mg	mg	gm	RE	mg	gm	Z	mg	Ħ
	1616   Heavy syrup pack   24,2   112,6   12,0   12,1   11,1   12,0   1639   Heavy syrup pack   24,2   239,1   0,1   0,1   13,1   11,1   13,0   1639   Heavy syrup pack   24,2   239,1   0,4   0,1   13,1	Pears, Canned	1507	Heavy syrup pack	9.92	316.6	0.2	0.2	19.7	5.0	7.0	0.2	0.0	0.01	0.01	0.1	1.0	11
1019   Electrophical control place   1019   Electrophical control place   1019   Electrophical unsweetened   1019   Ele	1619   Reavy symp pack   74,5   2024   0.1   19,5   11,1   3.0     1639   Raw, Dannson   60,5   250,2   0.4   0.0   15,1   15,5     1649   Raw, Parmson   60,5   250,2   0.4   0.0   15,3   15,5     1659   Raw, Tarpack, unsweetened   60,5   250,2   0.4   0.0   16,3   16,5   15,5     1650   Raw, Tarpack, unsweetened   60,5   250,2   0.4   0.0   16,3   16,5   15,5     1650   Raw, Tarpack, unsweetened   60,5   250,2   0.4   0.0   16,3   16,5   15,5     1650   Raw, Tarpack, unsweetened   60,5   250,2   0.4   0.0   16,3   16,5   15,5     1650   Raw, Tarpack, unsweetened   60,5   250,2   0.4   0.0   16,3   16,5   15,5     1650   Raw, Tarpack, unsweetened   60,5   250,2   0.4   0.0   16,3   16,5   15,5     1650   Raw, Tarpack, unsweetened   60,5   25,5   10,5   24,8   13,1   15,1     1650   Raw, Tarpack, unsweetened   60,5   38,3   0.4   0.2   23,6   13,1   16,1     1650   Raw, Tarpack   76,5   31,6   0.4   0.1   19,8   9.0   12,0     1650   Raw, Tarpack, good quality   12,4   15,5   0.3   4,4   26,3     1650   Raw, Tarpack, green and   26,1   10,2   2,0   2,3   2,3   3,1   3,1     1650   Raw, Spears   16,6   0.0   1.1   0.1   2,8   4,5   3,1     1650   Raw, Spears   16,6   0.0   1,1   0.1   2,8   1,3   3,1     1650   Raw, Spears   16,6   0.0   1,1   0.1   2,8   1,3   3,1     1650   Raw, Spears   16,6   0.0   1,1   0.1   3,9   3,1     1650   Raw, Without tops   30,2   1,2   1,0   0.1   3,9   3,1     1650   Raw, Without tops   3,2   1,4   1,5   1,5   1,5     1650   Raw, Without tops   3,2   1,4   1,5   1,5   1,5     1650   Raw, Without tops   3,2   1,4   1,5   1,5   1,5     1650   Raw, Without tops   3,2   1,4   1,5   1,5   1,5     1650   Raw, Without tops   3,2   1,4   1,5   1,5   1,5     1650   Raw, Without tops   3,2   1,4   1,5   1,5   1,5     1650   Raw, Without tops   3,2   1,4   1,5   1,5   1,5   1,5     1650   Raw, Without tops   3,2   1,4   1,5   1,5   1,5   1,5     1650   Raw, Without tops   3,2   1,4   1,5   1,5   1,5   1,5     1650   Raw, Without tops   3,2   1,4   1,5   1,5   1,5   1,5     1650   Raw, With	Pineapples, Fresh	1611	Raw	27.2	112.6	0.2	0.1	7.1	8.9	4.2	0.2	3.6	0.04	0.01	0.1	8.9	500
1,000   1,00	1639   Raw, Danson   60.5   22.0.1   61.5	Pineapples, Canned	1616	Gannel management	14.0	308.4	5.0		13.6		0.0	5.0	0.0	0.07	0.0	7.0	0.7	0.0
1645   Heavy Symp pairs week   83.5   25.0   20.4   21.7   21.5	1645   Heavy syrup pack   83.6   34.5   0.4   0.1   217   9.0   10.0     1639   Figures for fresh plums used   65.5   250.2   0.4   0.1   217   0.1     1840   Raw, Fed water pack, ursweetened   85.7   230.4   1.1   0.4   15.2   21.5   21.5     1851   Red, water pack, ursweetened   85.7   230.4   1.1   0.4   15.2   21.5   21.5     1851   Red, water pack, ursweetened   85.7   230.4   0.1   0.4   15.2   21.5   21.5     1851   Red, sweetened   85.7   230.4   0.1   0.4   15.2   21.5   21.5     1952   Whole, sweetened   85.7   383.3   0.4   0.2   23.6   13.1   16.1     1953   Whole, sweetened   92.7   383.3   0.4   0.2   23.6   13.1   16.1     1954   Average of marmalade,   26.6   110.2   0.5   0.1   19.8   9.0   12.0     1954   Raw, trimmed, good quality   12.4   51.5   0.8   0.3   4.3   93.7   51.4     1955   Average of good quality   12.4   51.5   0.8   0.3   4.3   93.7   51.4     1955   Average of good quality   12.4   51.5   0.8   0.3   4.3   93.7   51.4     1955   Average green and   26.1   108.2   3.0   3.3   2.3   1.3     1955   Average, green and   26.1   108.2   3.0   3.3   2.3   1.3     1955   Average, green and   26.1   108.2   1.6   0.1   5.8   4.9   5.8     1957   Average, green and   26.1   108.2   1.6   0.1   5.8   4.9   5.8     1958   Average, green and   26.1   108.2   1.6   0.1   5.8   4.9   5.8     1958   Average, green and   27.2   112.4   1.7   1.0   0.1   5.8   4.9   5.8     1958   Average, green and   27.2   112.4   1.7   0.0   5.8   3.8     1958   Average, green and   27.2   112.4   1.7   0.0   5.8   3.8     1959   Average, green and   27.2   112.4   1.7   0.0   5.8   3.8     1950   Average, green and   27.2   112.4   1.7   0.0   5.8   3.8     1951   Average, green and   27.2   112.4   1.7   0.0   5.8   3.8     1951   Average, green and   27.2   112.4   1.7   0.0   5.8   3.8     1951   Average, green and   27.2   112.4   1.7   0.0   5.8   3.8     1952   Average, green and   27.2   112.4   1.7   0.0   5.8   3.8     1953   Average, green and   27.2   112.4   1.7   0.0   5.8   3.8     1954   A	Plums, Fresh	1639	Raw, Damson	60.5	250.2	4.0	0.0	16.3	16.5	15.6	4.0	27.5	0.03	0.07	0.4	5.0 <sup>d</sup>	0 M
h         1849         Figure for Friesh plums used         605         204         163         163         163         163         163         163         163         163         163         163         163         163         163         163         163         163         163         163         164         Raw, red         1849         Rew, red         1849         Rew, red         1852         Red, sweetened         357         204         10         182         153         163         0         90         50         00         00         00         00         00         10         163         0         0         0         0         0         10         10         10         10         10         10         10         10         10         <	h 1839 Raw, red common 17.25 A Raw, iceberg good quality 17.25 A Raw, red and quality 17.25 A Raw, seelend common 17.25 A Raw, seelend common 17.25 A Raw, seelend common 17.25 A Raw, seelend common 17.25 A Raw, richmed, common 17.25 A Raw, seelend duality 17.25 A Raw, seelend common 17.25 A Raw, richmed, common 17.25 A Raw, richmed, common 17.25 A Raw, richmed, common 17.25 A Raw, richmed, common 17.25 A Raw, richmed, common 17.25 A Raw, richmed, common 17.25 A Raw, richmed, common 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, common 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, common 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, common 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, richmed, good quality 17.25 A Raw, spens and liquids 17.25 A Raw, good quality 17.25 A Raw, without tops 17.25 A Raw, without diquids 17.25 A Raw, without tops 17.25 A Raw, without tops 17.25 A Raw, without tops 17.25 A Raw, without diquids 17.25 A Raw, without tops 17.25 A	Plums, Canned	1645	Heavy syrup pack	83.6	345.7	0.4	0.1	21.7	9.0	10.0	6.0	121.9	0.01	0.01	0.4	2.0	3
nh         1854         Red, water pack, unsweetened         35.7         20.4         11.3         21.5         21.5         21.5         21.5         21.5         21.5         21.5         21.5         21.5         21.5         21.5         21.5         21.5         Red, water pack, unsweetened         35.7         145.7         0.4         13.2         Red, sweetened         35.7         145.7         0.4         0.2         24.8         13.1         17.1         0.6         70         0.01         0.03         0.5         57.1           cea         1222         Navole cockers, severened         92.7         38.3         0.4         0.2         23.1         11.1         0.6         30         0.01         0.05         0.5         57.1           cea         1023         Fright, bery syrup pack         2.6         11.1         0.4         0.2         23.6         11.2         0.0	B84   Ray, red   Ray, good quality   Ray, red   Ray, grupped   Ray, red   R	Plums, Frozen	1639	Figures for fresh plums used	60.5	250.2	0.4	0.0	16.3	16.5	15.6	0.4	27.5	0.07	0.03	0.4	5.0 <sup>d</sup>	3.
Main Cooked Biolity   Main Cooked Biolity	rend         1851         Red, water pack, unsweetened         35.2         145.7         0.7         0.1         8.8         15.1         15.1           sch         2217A         Raw, good quality         35.8         148.0         0.6         0.4         8.8         15.1         15.1           named         2220         Raw, good quality         35.8         148.0         0.6         0.4         8.1         20.3         20.3           ned         1023         Function cocktail, solids and cocktail, solids and preserves         2.6         10.2         33.3         0.4         0.2         23.6         13.1         16.1           red         1023         Function beavery         2.6         110.2         0.2         0.4         0.2         23.6         13.1         16.1           red         1023         Function beavery         2.6         110.2         0.6         0.1         19.8         9.0         12.0           red         103         Function beavery         2.6         110.2         0.2         23.6         13.1         16.1           1148         Average of pressures         2.6         110.2         0.4         0.1         19.8         19.1           <	Raspberries, Fresh	1849	Raw, red	55.7	230.4		0.4	13.2	21.5	21.5	0.8	12.7	0.02	0.08	0.8	24.4	4
shen         1852         Red, wegod quality         358         408         0.7         0.2         24.8         13.1         17.1         0.6         7.0         0.05         0.5         57.0         Instruct           2220         Insympted         35.8         4.0         0.2         23.6         13.1         16.1         0.6         30.0         0.05         0.5         55.4         1           ped         1022         Inquick beavy sympted         76.5         316.6         0.4         8.1         16.1         0.6         30.0         0.0         0.5         55.4         1           1148         Average of marmalade,         26.6         110.2         0.4         0.4         2.0         20.3         0.0         0.05         0.5         55.4         1           1148         Average of marmalade,         26.6         110.2         0.5         0.1         0.6         27.7         8.9         0.8         4.0         0.0	sch         1852         Red, sweetened         98.7         408.4         0.7         0.2         4.8         13.1         17.1           sch         1852         Red, sweetened         98.7         48.8         0.7         0.2         2.36         13.1         17.1           zern         2220         Whole, sweetened         92.7         38.3         0.4         0.2         23.6         13.1         16.1           zern         1023         Whole, sweetened         92.7         38.3         0.4         0.2         23.6         13.1         16.1           injuid heavy syrup pack         76         316.6         0.4         0.1         19.8         9.0         12.0           1148         Average of marmalade,         26.6         110.2         0.4         0.1         19.8         9.0         12.0           1148         Average of marmalade,         26.6         110.2         0.4         0.1         19.8         9.0         12.0           1174         Raw, production         21.7         90.0         1.1         0.1         4.4         26.3         13.1         16.1           1529         Raw, production of quality         2.2         10.2         2.3	Raspberries, Canned	1851	Red, water pack, unsweetened	35.2	145.7	0.7	0.1	00.	15.1	15.1	9.0	0.6	0.01	0.03	0.5	0.6	4
sh         217A         Raw, good quality         35.8         148.0         0.6         0.4         8.1         20.1         0.9         58.0         0.0         0.05         0.5         55.4           red         2220         Insyrup         Raw, good quality         35.3         0.4         0.2         23.6         11.1         16.1         0.6         3.0         0.0         0.5         55.4           red         1220         Raw, good quality         25.7         31.6         0.4         0.1         19.8         9.0         12.0         0.4         0.0         0.0         0.0         0.0         55.4           1138         Armicoctotal, solids and preserves         26.6         110.2         0.1         10.6         27.7         8.9         0.8         4.0         0.0         0.0         0.0         55.54           1138         Armicoctotal, solids and preserves         26.6         110.2         0.1         10.6         27.7         8.9         0.8         4.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0	sh         2217A         Raw, good quality         35.8         18.4         0.6         0.4         2.3         2.3         2.0.3           red         1023         Instrup         92.7         383.3         0.4         0.2         23.6         13.1         16.1           red         1023         Fruit cocket, all, soils and preserves         76.6         316.6         0.4         0.1         19.8         9.0         12.0           red         1220         Whole, sweetened         92.7         383.3         0.4         0.2         23.6         13.1         16.1           red         114.8         Average of marmalade,         26.6         110.2         0.5         0.1         10.6         27.7         8.9           112.8         Raw, trimmed, common         21.7         90.0         1.1         0.1         4.8         44.4         26.3           115.8         Raw, incherg, good quality         12.4         51.5         0.3         0.3         4.3         93.7         14.4         26.3           117.9         Led         Raw, incherg, good quality         26.2         10.2         0.3         4.3         0.3         4.3         0.3         14.4         26.3	Raspberries, Frozen	1852	Red, sweetened	7.86	408.4	0.7	0.2	24.8	13.1	17.1	9.0	7.0	0.01	0.05	9.0	21.1	4
Mode, severetared   92.7   383.3   0.4   0.2   23.6   13.1   16.1   0.6   3.0   0.01   0.05   0.5   53.4   1.4	The color of the	Strawberries, Fresh	2217A	Raw, good quality	35.8	148.0	9.0	0.4	 	20.3	20.3	0.0	20.00	0.02	90.0	0.5	57.0	15.
13.8   Average of marmalade,   12.2   Average of marmalade,   13.8   Average of marmalade,   13.8   Average of marmalade,   13.8   Average of marmalade,   13.8   Average of marmalade,   13.8   Average of marmalade,   13.8   Average of marmalade,   13.8   Average of marmalade,   13.8   Average of marmalade,   13.8   Average of marmalade,   13.8   13.8   Average of marmalade,   13.8	1023   Fruit cocktail, solids and   72.7   353.5   0.4   0.1   19.8   9.0   12.0     1148   Average of marmalade,   26.6   1102.2   0.5   0.1   70.6   27.7   8.9     1138   Jams and preserves   26.6   1102.2   0.5   0.1   70.6   27.7   8.9     1258A   Raw, ircherg, good quality   12.4   51.5   0.3   4.3   93.7   51.4     2169A   Raw, ircherg, good quality   26.2   108.2   3.2   0.3   4.3   93.7   51.4     2170   Solids and liquid   25.2   108.2   3.2   0.3   4.3   93.7   51.4     46   Raw, spears   25.2   26.4   26.4   26.4   26.5     5171   Solids and liquid   25.2   26.2   26.4   26.5     5182   Average, green and   25.2   26.4   26.4   26.5     5183   Average, green and   26.1   108.2   1.6   0.1   2.8   23.1     5194   Average, green and   26.1   108.2   1.6   0.1   3.9   32.1     5195   Average, green and   26.1   108.2   1.6   0.1   3.9   32.1     5195   Average, green and   26.1   108.2   1.6   0.1   3.9   32.1     5196   Average, green and   26.1   108.2   1.6   0.1   3.9   32.1     5197   Average, green and   26.1   108.2   1.6   0.1   3.9   32.1     5198   Average, green and   27.2   112.4   1.7   0.0   5.8   36.5     5198   Solids and liquids   36.2   116.4   3.9   3.1   3.9     5199   Solids and liquids   36.2   110.4   3.9   3.1   3.9     5199   Average, green and   27.2   112.4   1.7   0.0   5.8   36.5     5198   Average, green and   27.2   112.4   1.7   0.0   5.8   30.5     5199   Average, green and   27.2   112.4   1.7   0.0   5.8     5199   Average, green and   27.2   112.4   1.7   0.0   5.8     5209   Average, green and   27.2   112.4   1.7   0.0   5.8     5209   Average, green and   27.2   112.4   1.7   0.0   5.8     5209   Average, green and   27.2   112.4   1.7   0.0   5.8     5209   Average, green and   27.2   112.4   1.7   0.0   5.8     5209   Average, green and   27.2   112.4   1.7   0.0   5.8     5209   Average, green and   27.2   112.4   1.7   0.0   5.8     5209   5200   5200   5200   5200   5200   5200     5209   5200   5200   5200   5200   5200     5200   5200   5200   5200   5200	Strawberries, Canned	07770	In syrup	7.76	383.3	4.0	7.0	23.6	13.1	16.1	0.0	3.0	0.01	0.05	0.0	55.4	10.
1318   Average of fraatmalade,   266   1102.2   0.5   0.1   19.8   9.0   12.0   0.4   14.1   0.1   0.01   0.01   0.0   0.0     1318   Average of fraatmalade,   266   1102.2   0.5   0.1   70.6   27.7   8.9   0.8   4.6   0.0   0.0   0.0   0.0   0.0     1318   Average of fraatmalade,   266   1102.2   0.5   0.1   70.6   27.7   8.9   0.8   4.6   0.0   0.0   0.0   0.0   0.0     1238A   Raw, trimmed, good quality   12.4   51.5   0.8   0.0   2.7   19.1   21.0   0.4   31.6   0.0   0.0   0.0   0.0     1318   Average green and Green, regular pack   18.1   7.4   1.0   0.1   2.2   1.0   0.3   4.4   0.0   0.0   0.0   0.0     1318   Average green and Green, regular pack   18.6   7.7   1.0   0.1   2.3   1.0   0.4   31.6   0.0   0.0   0.0   0.0     1318   Average green and Green, regular pack   18.6   7.7   1.0   0.1   3.9   3.1   3.9   3.1   3.1   3.0   3.0   3.0   3.0   3.0   3.0   3.0   3.0     1329   Average green and Green, regular pack   18.6   7.7   1.0   0.1   3.9   3.0	1148   Handle   Han	Unspecified Canned	1023	Wildle, sweetened Fruit cocktail, solids and	1.76	202.2	4.0	7.0	73.0	13.1	10.1	0.0	0.0	0.0	0.0	0.0	† 	.0
1148   Average of marmalade,   158A   Raw, trimmed, common	1148	Fruit		liquid, heavy syrup pack	9.92	316.6	0.4	0.1	19.8	0.6	12.0	0.4	14.1	0.01	0.01	0.4	2.0	0.0
Siza Raw, trimmed, common	512A         Raw, trimmed, common         21.7         90.0         1.1         0.1         4.8         44.4         26.3           1258A         Raw, trimmed, common         21.7         90.0         1.1         0.1         4.8         44.4         26.3           1258A         Raw, trimmed, good quality         12.4         51.5         0.8         0.0         2.7         19.1         21.0           2171         Solids and liquid         19.1         71.2         20.0         3.3         4.2         19.1         21.0           46         Raw, spears         14.6         60.6         1.4         0.1         2.8         12.4         35.0           ed         48         Green, regular pack         18.1         74.8         1.9         0.1         2.8         12.4         35.0           182         Average, green and         26.1         108.2         1.6         0.1         5.8         49.6         38.5           197         Average, green and         27.1         1.0         0.1         3.9         32.1         19.8           197         Average, green and         27.1         1.0         0.1         3.9         32.1         19.8	Jams, Jellies,	1148	Average of marmalade,	2666	1102.2	50	-	70.6	777	0	× C		0.01	0 0	0	4.0	00
512A         Raw, iceberg, good quality         11.7         90.0         1.1         0.1         4.8         44.4         26.3         0.3         118         0.04         0.05         0.2         5.7           2169A         Raw, iceberg, good quality         12.4         51.5         0.8         0.0         2.7         19.1         21.0         0.4         31.6         0.0	512A         Raw, trimmed, common         21.7         90.0         1.1         0.1         4.8         44.4         26.3           2169A         Raw, iceberg, good quality         12.4         51.5         0.8         0.0         2.7         19.1         21.0           2169A         Raw, trimmed, good quality         26.2         18.2         3.2         0.3         4.3         93.7         51.4           46         Raw, spears         14.6         60.6         1.4         0.1         2.8         12.0         13.0         85.6         26.2           ed         48         Green, regular pack         18.1         74.8         1.9         0.3         2.9         18.1         45.3           n         6.2         Average, green and         24.2         100.0         3.3         0.2         3.9         18.1         43.5         8.5         49.6         38.5           197         Average, green and         26.1         108.2         1.6         0.1         5.8         49.6         38.5           197         Average, green and         27.1         1.0         0.1         5.8         49.6         38.5           198         Average, green and         27.1 <td>Mailliaiduc</td> <td>0171</td> <td>James and preserves</td> <td>700.0</td> <td>1102.2</td> <td>0.0</td> <td></td> <td>0.07</td> <td>1.12</td> <td>6.0</td> <td>0.0</td> <td></td> <td>0.0</td> <td>20.0</td> <td></td> <td>) F</td> <td>5</td>	Mailliaiduc	0171	James and preserves	700.0	1102.2	0.0		0.07	1.12	6.0	0.0		0.0	20.0		) F	5
1258   Raw, iceberg, good quality   124   51.5   0.8   0.0   2.7   19.1   21.0   0.4   31.6   0.05   0.05   0.2   5.7     2179   Last Raw, trimmed, good quality   12.4   51.5   0.8   0.0   0.3   4.3   51.4   31.6   0.0   0.0   0.0   0.0   14.1     2179   Last Raw, trimmed, good quality   25.2   104.2   3.0   0.3   4.2   10.5   8.54   3.1   0.0   0.0   0.0   0.0   14.1     4	1288A   Raw, iceberg, good quality   124   51.5   0.8   0.0   2.7   19.1   21.0     2169A   Raw, trimmed, good quality   26.2   108.2   3.2   0.3   4.3   93.7   51.4     2171   Solids and liquid   25.2   108.2   3.0   0.3   4.3   93.7   51.4     46   Raw, spears   14.6   60.6   1.4   0.1   2.8   12.4   35.0     85   Spears   18.1   74.8   1.9   0.3   2.9   18.1   43.3     197   Average, green and   26.1   108.2   1.6   0.1   5.8   49.6   38.5     197   Average, green and   26.1   108.2   1.6   0.1   3.9   23.1   69.5     197   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     198   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     199   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     191   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     192   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     193   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     194   Baby   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     195   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     198   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     199   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     199   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     199   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     199   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     199   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     199   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     199   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     199   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8     190   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8     190   Average, green and   27.2   112.4   1.7   0.0   0.1   4.8   40.6   5.7     190   Average, green and   37.2   112.4   3.3   0.1   4.8   0.1   3.9     1	Vegetables Cabbage Fresh	\$12A	Raw trimmed common	217	0 06	-	0.1	8 4	44 4	263	0.3	00	0.04	0.04	0.3	42.6	27.
2169A         Raw, trimmed, good quality         26.2         108.2         3.2         0.3         4.3         93.7         514         3.1         816.4         0.09         0.20         0.6         51.4         2           1771         Solids and liquid         26.2         108.2         3.2         0.3         4.2         1.4         3.6         2.1         3.6         2.1         3.6         0.0         0	21694   Raw, trimmed, good quality   26.2   108.2   3.2   0.3   4.3   93.7   51.4     2171   Solids and liquid   19.1   79.1   2.0   0.4   3.0   85.6   26.2     2179   Leaf   Raw, spears   14.6   0.6   1.4   0.1   2.8   1.24     48   Green, regular pack   18.1   74.8   1.9   0.3   2.9   18.1   43.3     62   Spears   18.1   74.8   1.9   0.3   2.9   18.1   43.3     182   Average, green and   24.2   100.0   3.3   0.2   3.9   23.1   69.5     193   Average, green and   26.1   108.2   1.6   0.1   3.9   32.1   19.8     194   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     194   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     195   Solids and liquids   34.2   141.5   0.9   0.1   21.7   35.9   123.7     194   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     195   Spears   38.4   39.3   125.3   1.1   0.0   6.5   10.5   21.8     195   Spears   34.2   141.5   0.9   0.1   21.7   35.9   123.7     196   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8     195   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8     196   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8     197   Spears   34.2   141.5   0.9   0.1   7.4   13.5   1.8     198   Average, green and   31.2   12.0   0.1   7.5   28.6     198   Average, green and   31.2   12.0   0.1   7.5   28.6     198   Average, green and   31.2   12.4   4.5   0.3   7.2   31.2     198   Average, green and   31.2   12.4   4.5   0.1   7.5     198   Average, green and   31.2   12.4   4.5   0.1   7.5     198   Average, green and   31.2   12.4   1.7   0.0   0.1   7.5     198   Average, green and   31.2   12.4   1.7   0.0   0.1   7.5     198   Average, green and   31.2   12.4   1.7   1.7   1.7     198   Average, green and   31.2   1.7	Lettuce	1258A	Raw icehera good quality	12.4	51.5	× C	0.0	2.7	191	21.0	0.4	31.6	0.05	0.05	0.2	5.7	22.0
2171         Solids and liquid         19.1         79.1         2.0         0.4         3.0         85.6         26.2         2.1         554.4         0.0         0.9         0.9         14.1         1           4 Raw, pears         4.8         Green, regular pack         18.1         74.8         1.9         0.3         2.9         18.1         43.3         2.5         86.4         0.0         0.0         0.1         1.1         1.0         8.5         1.2         15.3         0.3         2.9         18.1         43.3         1.7         51.4         0.0         0.0         0.0         0.0         0.1         1.1         1.0         8.5         0.0         0.5         5.8         4.0         0.0         0.0         0.0         0.0         0.0         1.1         1.0         1.2         3.9         2.1         4.3         1.7         5.1         0.0         <	2171         Solids and liquid         19.1         79.1         2.0         0.4         3.0         85.6         26.2           46         Raw, spears         14.6         60.6         1.4         0.1         2.8         1.5.3         6.2         105.8         45.3           ed         48         Green, regular pack         18.1         74.8         1.9         0.3         2.9         18.1         43.3           n         62         Spears         18.2         Average, green and         24.2         100.0         3.3         0.2         3.9         23.1         69.5           195         Average, green and         26.1         108.2         1.6         0.1         5.8         49.6         38.5           191         Average, green and         26.1         108.2         1.6         0.1         3.9         23.1         19.8           191         Average, green and         27.1         1.0         0.1         3.9         32.1         19.8           203         yellow, regular pack         18.6         77.1         1.0         0.1         3.9         23.1         19.8           203         yellow, regular pack         18.6         77.1	Spinach, Fresh	2169A	Raw, trimmed, good quality	26.2	108.2	3.2	0.3	4.3	93.7	51.4	3.1	816.4	0.00	0.20	9.0	51.4	205.
11         Leaf         Leaf         12         10         2         10         2         10         2         10         2         10         2         10         2         10         2         10         8         45         Raw, spears         14         6         1         1         2         1         3         2         9         1         3         2         1         3         2         1         3         2         3         1         3         2         3         1         3         3         3         1         3         3         1         3         3         3         1         3         3         3         1         3	179         Leaf         Leaf         A Kaw, spears         146         Raw, spears         147         147         147         147         148	Spinach, Canned	2171	Solids and liquid	19.1	79.1	2.0	0.4	3.0	85.6	26.2	2.1	554.4	0.01	0.09	6.0	14.1	102.
146         Raw, spears         146         6.06         1.4         0.1         2.8         12.4         35.0         0.5         50.8         0.10         0.11         1.0         186           ed         4.8         Gorari         1.2         1.2         51.4         0.05         0.5         50.9         0.8         1.1         1.86           ed         4.8         1.9         0.3         2.9         1.81         43.3         1.7         51.4         0.09         0.9         0.9         1.1         1.86           182         Average, green and         2.4.2         1.0         0.1         3.9         32.1         1.9         3.7         0.0         0.0         0.0         1.1         1.0         1.8         1.1         0.0         0.1         1.0         0.1         3.9         32.1         1.9         3.7         0.0         0.0         0.0         0.1         1.1         0.0         0.0         0.1         1.0         0.1         3.9         32.1         1.9         3.2         1.0         0.1         3.9         32.1         6.5         1.2         1.2         1.7         0.0         0.0         0.0         0.1         1.1	46         Raw, spears         14.6         60.6         1.4         0.1         2.8         12.4         35.0           ed         48         Green, regular pack         18.1         74.8         1.9         0.3         2.9         18.1         43.3           en         6.2         Spears         Spears         18.1         74.8         1.9         0.3         2.9         18.1         43.3           en         6.2         Average, green and         26.1         108.2         1.6         0.1         5.8         49.6         38.5           197         Average, green and         26.1         108.2         1.6         0.1         3.9         23.1         19.8           209         197         Average, green and         26.1         108.2         1.6         0.1         3.9         32.1         19.8           201         394         Average, green and         27.2         112.4         1.7         0.0         5.8         49.6         38.3           201         384         Rav, without tops         30.3         125.3         11.7         10.0         5.8         36.7         13.2           384         Spears         Solids and liquids	Spinach, Frozen	2179	Leaf	25.2	104.2	3.0	0.3	4.2	105.8	45.3	2.5	816.4	0.09	0.16	0.5	35.2	102.
en         48         Green, regular pack         18.1         74.8         19.9         0.3         2.9         18.1         43.3         17.7         51.4         0.05         0.09         0.8         15.1           en         62         Spears         Average, green and         24.2         100.0         3.3         0.2         3.9         23.1         69.5         1.2         78.6         0.18         0.14         1.3         29.2           195         yellow, raw         26.1         108.2         1.6         0.1         5.8         49.6         38.5         0.7         37.7         0.07         0.09         0.8         15.1           185         Average, green and         18.6         77.1         1.0         0.1         3.9         32.1         19.8         1.2         78.6         0.7         37.7         0.0         0.0         17.2           203         yellow, regular pack         18.6         77.1         1.0         0.1         3.9         32.1         1.9         32.1         1.0         0.1         3.9         32.1         1.2         38.6         0.0         0.0         0.1         1.7           zen         174         Baby	ted 48 Green, regular pack 18.1 74.8 1.9 0.3 2.9 18.1 43.3 en 62 Spears 18.2 Average, green and 195 yellow, raw 197 yellow, regular pack 197 yellow or wax, cut 197 yellow or wax, cut 198 Average, green and 199 Average, green and 199 Average, green and 199 yellow or wax, cut 199 Average, green and	Asparagus, Fresh	46	Raw, spears	14.6	9.09	1.4	0.1	2.8	12.4	35.0	0.5	50.8	0.10	0.11	0.7	18.6	36.
Frozen 62 Spears	en 62 Spears 182 Average, green and 182 Average, green and 183 Average, green and 195 yellow, raw 195 Average, green and 197 yellow, regular pack 197 yellow or wax, cut 203 yellow or wax, without tops 203 yellow or wax, without tops 203 yellow 203 y	Asparagus, Canned	48	Green, regular pack	18.1	74.8	1.9	0.3	2.9	18.1	43.3	1.7	51.4	0.05	0.00	8.0	15.1	64.
182         Average, green and 182         26.1         108.2         1.6         0.1         5.8         49.6         38.5         0.7         37.7         0.07         0.09         0.6         17.2           185         Average, green and 197         yellow, regular pack         18.6         77.1         1.0         0.1         3.9         32.1         19.8         1.2         17.6         0.03         0.04         4.5           197         Average, green and 191         Average, green and 203         yellow rwax, cut         27.2         112.4         1.7         0.0         5.8         36.8         30.7         0.8         34.2         0.07         0.09         0.4         4.5           zen         174         Baby         Average, green and 190         27.2         112.4         1.7         0.0         5.8         36.8         30.7         0.8         34.2         0.0         0.1         1.7         0.0         5.8         36.8         30.7         0.8         34.7         10.1         10.0         0.1         10.0         0.0         10.0         0.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0         10.0	18.2   Average, green and   18.2   1.6   0.1   5.8   49.6   38.5     18.3   Average, green and   18.6   77.1   1.0   0.1   3.9   32.1   19.8     19.1   Average, green and   18.6   77.1   1.0   0.1   3.9   32.1   19.8     19.1   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     19.1   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     19.1   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     19.2   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     10.3   384C   Raw, without tops   34.3   141.5   0.9   0.1   7.4   13.2   16.0     10.4   Average, green and   27.2   141.5   0.9   0.1   7.4   13.5   16.0     10.5   Average, green and   27.2   141.5   0.9   0.1   7.2   31.2   69.5     10.5   Average, green and   34.7   143.5   0.9   0.1   7.5   28.6   27.8     10.5   Average, green and   34.7   143.5   0.9   0.1   7.5   28.6   27.8     10.5   Average, green and   34.7   143.5   0.9   0.1   7.5   28.6   27.8     10.5   Average, green and   34.7   143.5   0.9   0.1   7.5   28.6   27.8     10.5   Average, green and   34.7   143.5   0.9   0.1   6.7   31.1   29.2     10.5   Average, green and   34.7   14.8   0.1   4.0   17.9   39.6     10.5   Average, green and   34.7   14.8   0.1   4.0   17.9   39.6     10.5   Average, green and   34.7   34.7   34.7   34.7   34.8     10.5   Average, green and   34.7   34.8   34.7   34.8     10.5   Average, green and   34.7   34.8   34.7   34.8     10.5   Average, green and   34.7   34.8     10.5   Average, green and   34.7   34.8     10.5   Average, green and   34.7   34.8     10.5   Average, green and   34.7   34.8     10.5   Average, green and   34.7   34.8     10.5   Average, green and   34.7   34.8     10.5   Average, green and   34.7   34.8     10.5   Average, green and   34.7   34.8     10.5   Average, green and   34.7   34.8     10.5   Average, green and   34.7   34.8     10.5   Average, green and   34.7   34.8     10.5   Average, green and   34.7   34.8     10.5   Average, green and   34.7   34.8	Asparagus, Frozen	62	Spears	24.2	0.001	3.3	0.2	3.9	23.1	69.5	1.2	78.6	0.18	0.14	1.3	29.7	64.
187         Average, green and 197         18.6         77.1         1.0         0.1         3.9         32.1         19.8         1.2         17.6         0.03         0.04         4.5           197         Average, green and 197         Jellow, regular pack         18.6         77.1         1.0         0.1         3.9         32.1         19.8         1.2         17.6         0.03         0.04         4.5           2en         17.3         yellow or wax, cut         27.2         112.4         1.7         0.0         5.8         36.8         30.7         0.8         34.2         0.07         0.09         0.4         10.5           2en         17.4         Baby         384C         Raw, without tops         36.2         1.2         1.7         1.0         0.1         21.7         35.9         1.23         2.8         22.1         0.09         0.4         1.0         0.0         0.3         1.2         1.2         1.0         0.1         1.0         0.1         21.7         35.9         1.2         1.2         1.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0 <td< td=""><td>  185   Average, green and   18.6   77.1   1.0   0.1   3.9   32.1   19.8     197   yellow, regular pack   18.6   77.1   1.0   0.1   3.9   32.1   19.8     191   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     198   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     198   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     198   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     199   Average, green and   27.2   112.4   1.7   0.0   6.5   10.5     109   179   12.7   12.9   12.7     109   109   109   10.8     100   100   100   100   10.8     100   100   100   10.8     100   100   100   10.8     100   100   100   100     100   100     100   100</td><td>Deans, Fresn</td><td>195</td><td>Average, green and</td><td>26.1</td><td>108.7</td><td>1 6</td><td>-</td><td>00</td><td>49.6</td><td></td><td>0.7</td><td>377</td><td>0.07</td><td>0.00</td><td>90</td><td>17.2</td><td>3.7</td></td<>	185   Average, green and   18.6   77.1   1.0   0.1   3.9   32.1   19.8     197   yellow, regular pack   18.6   77.1   1.0   0.1   3.9   32.1   19.8     191   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     198   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     198   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     198   Average, green and   27.2   112.4   1.7   0.0   5.8   36.8   30.7     199   Average, green and   27.2   112.4   1.7   0.0   6.5   10.5     109   179   12.7   12.9   12.7     109   109   109   10.8     100   100   100   100   10.8     100   100   100   10.8     100   100   100   10.8     100   100   100   100     100   100     100   100	Deans, Fresn	195	Average, green and	26.1	108.7	1 6	-	00	49.6		0.7	377	0.07	0.00	90	17.2	3.7
197         yellow, regular pack         18.6         77.1         1.0         0.1         3.9         32.1         19.8         1.2         17.6         0.03         0.04         4.5           203         yellow, regular pack         18.6         77.1         1.0         0.1         5.8         36.8         30.7         0.8         34.2         0.0         0.0         9.4         1.0           203         yellow or wax, cut         17.2         11.2.4         7.6         0.1         21.7         35.9         123.7         2.8         0.0         0.8         34.2         0.0<	197         yellow, regular pack         18.6         77.1         1.0         0.1         3.9         32.1         19.8           203         yellow or wax, cut         27.2         112.4         1.7         0.0         5.8         36.8         30.7           203         yellow or wax, cut         27.2         112.4         1.7         0.0         5.8         36.8         30.7           384C         Raw, without tops         30.3         125.3         1.1         0.0         6.5         10.5         21.8           386         Solids and liquids         36.3         30.3         125.3         0.9         0.1         7.4         13.7         60.5         51.8           483         Raw spears, partially trimmed         25.1         104.0         2.8         0.2         4.3         75.9         57.5         40.5         56.7           487         Spears         28.2         116.6         3.3         0.1         4.8         40.6         56.7         58.5           487         Spears         28.2         116.6         3.3         0.1         4.8         40.6         56.7         58.5           489         Raw, good quality         41.7         1	Beans, Canned	\$ 50	Average, green and		7	2	-	2	0.								)
191         Average, green and 27.2         112.4         1.7         0.0         5.8         36.8         30.7         0.8         34.2         0.09         0.4         10.5           zen         174         Bablow or wax, cut         122.9         508.4         7.6         0.1         21.7         35.9         123.7         2.8         22.1         0.09         0.05         1.0         19.1           384C         Raw, without tops         34.2         141.5         0.9         0.1         7.4         13.2         16.0         0.6         1.0         0.0         0.1         1.0         0.0         1.0         1.0         1.0         1.0         1.0         0.0         0.1         1.0         0.0         0.1         1.0         0.0         1.0         0.0         0.1         1.0         0.0         1.0         1.0         0.0         1.0	191         Average, green and         27.2         112.4         1.7         0.0         5.8         36.8         30.7           zen         174         Babov or wax, cut         122.9         508.4         7.6         0.1         21.7         35.9         123.7           384C         Raw, without tops         30.3         125.3         1.1         0.0         6.5         10.5         21.8           483A         Raw spears, partially trimmed         25.1         104.0         2.8         0.2         4.3         75.9         57.5           487         Spears         28.2         116.6         3.3         0.1         4.8         40.6         56.7           487         Spears         28.2         116.6         3.3         0.1         4.8         40.6         56.7           Frozen         491         Raw, good quality         41.7         172.4         4.5         0.3         7.2         31.2         69.5           619C         Raw, without tops         34.7         143.5         0.9         0.1         6.8         20.7         58.5           621         Solids and liquids         22.2         116.6         0.0         0.1         6.1		197	yellow, regular pack	18.6	77.1	1.0	0.1	3.9	32.1	19.8	1.2	17.6	0.03	0.03	0.4	4.5	33.7
zen 174 Baby or wax, cut 12.2 112.4 1.7 0.0 5.8 36.8 30.7 0.8 34.2 0.07 0.09 0.4 10.5 0.8 34.2 0.01 0.09 0.5 1.2 19.1 0.8 38.4 2.8 2.1 0.09 0.05 1.2 19.1 0.09 0.5 1.2 19.1 0.09 0.5 1.2 19.1 0.00 0.6 1.0 0.09 0.05 1.2 19.1 0.00 0.6 0.0 0.6 1.0 0.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	zen 174 Baby or wax, cut 27.2 112.4 1.7 0.0 5.8 36.8 30.7 174 Baby or wax, cut 122.9 508.4 7.6 0.1 21.7 35.9 123.7 386 Solids and liquids 25.1 104.0 2.8 0.2 4.3 75.9 123.7 483.4 Raw, spears, partially trimmed 25.1 104.0 2.8 0.2 4.3 75.9 57.5 487 Spears 489.4 Raw, good quality 41.7 172.4 4.5 0.3 72 31.2 69.5 67.5 61.6 Cooked, boiled, drained 22.1 10.6 0.0 0.1 6.1 23.6 18.8 620 Cooked, boiled, drained 10.6 44.0 1.0 0.0 1.9 9.2 20.6 sen 632 are 17.0 39.0 1.0 4.0 17.9 39.6	Beans, Frozen	191	Average, green and	i d		,	(	(		I c	0			0	•	(	
384C         Raw, without tops         3.2.2         7.0.3         7.1.7	Second Second	lima Reans Frozen	203	yellow or wax, cut	2.12	508.4	1.1	0.0	21.0	36.8	30.7	ν.ς ×. κ	34.2		0.09	4.0 c -	10.5	33.
386         Solids and liquids         34.2         141.5         0.9         0.1         7.4         13.2         16.0         0.6         1.0         0.01	386 Solids and liquids 483 A Raw spears, partially trimmed 25.1 104.0 2.8 0.2 4.3 75.9 57.5 487 Spears 487 Spears 488 Raw, good quality 41.7 172.4 4.5 0.3 72 31.2 69.5 Frozen 491 Raw, without tops 621 Solids and liquids 521 10.6 0.0 0.0 1.9 9.2 20.6 521 Solids and liquids 521 10.6 10.0 0.0 1.9 9.2 20.6 522 10.0 0.0 1.0 0.1 1.0 39.6 523 10.0 0.0 1.0 1.0 39.6	Beets. Fresh	384C	Raw, without tons	30 3	1253	0: -	000	6.5	10.5	21.0	0.7	4 -		0.03	0.4	7.0	65
483A Raw spears, partially trimmed 25.1 104.0 2.8 0.2 4.3 75.9 57.5 0.8 196.5 0.07 0.17 1.1 88.8  487 Spears 489A Raw, good quality 49.1 172.4 4.5 0.3 7.2 31.2 69.5 1.4 51.0 0.09 0.14 0.8 78.6  49.1 172.4 4.5 0.3 7.2 31.2 69.5 1.4 51.0 0.09 0.14 0.8 94.6  49.1 172.4 4.5 0.9 0.1 6.8 20.7 58.5 0.9 55.2 0.10 0.11 0.6 87.6  49.1 28.2 116.6 0.6 0.1 6.1 23.6 18.8 0.7 1008.0 0.1 0.01 0.01 0.4 2.0  49.2 20.6 cooked, boiled, drained 31.2 129.1 0.9 0.1 6.7 31.1 29.2 0.6 1058.4 0.05 0.05 0.5 6.0  49.2 20.6 0.4 2.3 0.04 0.03 0.4 30.6  49.2 20.6 0.4 2.3 0.04 0.03 0.4 30.6  49.2 20.6 0.4 2.3 0.04 0.03 0.4 30.6  49.2 20.6 0.4 2.3 0.04 0.03 0.4 30.6  49.2 20.6 0.4 2.3 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.	483A         Raw spears, partially trimmed         25.1         104.0         2.8         0.2         4.3         75.9         57.5           487         Spears         28.2         116.6         3.3         0.1         4.8         40.6         56.7           Fresh         489A         Raw, good quality         41.7         172.4         4.5         0.3         7.2         31.2         69.5           Frozen         491         Raw, without tops         34.7         143.5         0.9         0.1         6.8         20.7         58.5           621         Solids and liquids         28.2         116.6         0.6         0.1         6.1         23.6         18.8           sh         630B         Raw, untrimmed         10.6         44.0         1.0         0.0         1.9         9.2         20.6           zen         632         Asw, untrimmed         22.1         91.7         1.8         0.1         4.0         17.9         39.6	Beets, Canned	386	Solids and liquids	34.2	141.5	6.0	0.1	7.4	13.2	16.0	9.0	0.1		0.01	0.2	3.0	93.
487         Spears         28.2         116.6         3.3         0.1         4.8         40.6         56.7         0.7         191.5         0.0         0.12         0.6         78.6           Frozen         491         Raw, good quality         41.7         172.4         4.5         0.3         7.2         31.2         69.5         1.4         51.0         0.0         0.14         0.8         94.6           Frozen         491         Raw, good quality         41.7         172.4         4.5         0.3         7.2         31.2         69.5         1.4         51.0         0.09         0.14         0.8         94.6           Frozen         491         Raw, without tops         34.7         143.5         0.9         0.1         7.5         28.6         27.8         0.9         55.2         0.10         0.11         0.6         87.6           621         Solids and liquids         28.2         116.6         0.6         0.1         6.1         23.6         18.8         0.7         1008.0         0.01         0.4         2.0           620         Cooked, boiled, drained         12.9         0.9         0.1         6.7         31.1         29.2         0.6 <td>487         Spears         28.2         116.6         3.3         0.1         4.8         40.6         56.7           Frozen         491         Raw, good quality         41.7         172.4         4.5         0.3         7.2         31.2         69.5           619C         Raw, without tops         34.7         143.5         0.9         0.1         6.8         20.7         58.5           621         Solids and liquids         28.2         116.6         0.6         0.1         6.1         23.6         18.8           520         Cooked, boiled, drained         31.2         129.1         0.9         0.1         6.7         31.1         29.2           sh         630B         Raw, untrimmed         10.6         1.0         1.0         1.0         1.9         9.2         20.6           zen         632         Raw, untrimmed         22.1         91.7         1.8         0.1         4.0         17.9         39.6</td> <td>Broccoli, Fresh</td> <td>483A</td> <td>Raw spears, partially trimmed</td> <td>25.1</td> <td>104.0</td> <td>2.8</td> <td>0.2</td> <td>4.3</td> <td>75.9</td> <td>57.5</td> <td>0.8</td> <td>196.5</td> <td></td> <td>0.17</td> <td></td> <td>80.00</td> <td>47.</td>	487         Spears         28.2         116.6         3.3         0.1         4.8         40.6         56.7           Frozen         491         Raw, good quality         41.7         172.4         4.5         0.3         7.2         31.2         69.5           619C         Raw, without tops         34.7         143.5         0.9         0.1         6.8         20.7         58.5           621         Solids and liquids         28.2         116.6         0.6         0.1         6.1         23.6         18.8           520         Cooked, boiled, drained         31.2         129.1         0.9         0.1         6.7         31.1         29.2           sh         630B         Raw, untrimmed         10.6         1.0         1.0         1.0         1.9         9.2         20.6           zen         632         Raw, untrimmed         22.1         91.7         1.8         0.1         4.0         17.9         39.6	Broccoli, Fresh	483A	Raw spears, partially trimmed	25.1	104.0	2.8	0.2	4.3	75.9	57.5	0.8	196.5		0.17		80.00	47.
Frozen         489A         Raw, good quality         41.7         172.4         4.5         0.3         7.2         31.2         69.5         1.4         51.0         0.09         0.14         0.8         94.6           Frozen         491         Raw, without tops         36.2         150.0         3.3         0.1         6.8         20.7         58.5         0.9         55.2         0.10         0.11         0.6         87.6           619C         Raw, without tops         34.7         143.5         0.9         0.1         7.5         28.6         27.8         0.9         55.2         0.10         0.11         0.6         87.6           621         Solids and liquids         28.2         116.6         0.6         0.1         6.1         23.6         18.8         0.7         1008.0         0.01         0.4         2.0           620         Cooked, boiled, drained         31.2         129.1         0.9         0.1         6.7         31.1         29.2         0.6         1058.4         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0	Frozen         489A         Raw, good quality         41.7         172.4         4.5         0.3         7.2         31.2         69.5           Frozen         491         Raw, without tops         36.2         150.0         3.3         0.1         6.8         20.7         58.5           621         Solids and liquids         28.2         116.6         0.6         0.1         7.5         28.6         27.8           50         Cooked, boiled, drained         31.2         129.1         0.9         0.1         6.7         31.1         29.2           sh         630B         Raw, untrimmed         10.6         44.0         1.0         0.0         1.9         9.2         20.6           zen         632         1.2         1.8         0.1         4.0         17.9         39.6	Broccoli, Frozen	487	Spears	28.2	116.6	3.3	0.1	8.4	40.6	56.7	0.7	191.5		0.12	9.0	78.6	61.
Frozen         491         36.2         150.0         3.3         0.1         6.8         20.7         58.5         0.9         55.2         0.10         0.11         0.6         87.6           619C         Raw, without tops         34.7         143.5         0.9         0.1         7.5         28.6         27.8         0.9         55.2         0.10         0.11         0.6         87.6           621         Solids and liquids         28.2         116.6         0.6         0.1         6.1         23.6         18.8         0.7         1008.0         0.01         0.0         0.4         2.0           620         Cooked, boiled, drained         31.2         129.1         0.9         0.1         6.7         31.1         29.2         0.6         1058.4         0.05         0.05         0.5         6.0           sh         630B         Raw, untrimmed         10.6         44.0         1.0         0.0         1.9         9.2         20.6         0.4         2.3         0.0         0.0         56.4           zen         632B         Raw, untrimmed         1.8         0.1         4.0         1.7         4.0         1.7         39.6         0.6         0.0<	Frozen     491       619C     Raw, without tops     34.7     143.5     0.9     0.1     7.5     28.6     27.8       621     Solids and liquids     28.2     116.6     0.6     0.1     6.1     23.6     18.8       620     Cooked, boiled, drained     31.2     129.1     0.9     0.1     6.7     31.1     29.2       sh     630B     Raw, untrimmed     10.6     44.0     1.0     0.0     1.9     9.2     20.6       zen     632     as, untrimmed     22.1     91.7     1.8     0.1     4.0     17.9     39.6	Brussels Sprouts, Fresh	489A	Raw, good quality	41.7	172.4	4.5	0.3	7.2	31.2	69.5	1.4	51.0		0.14	8.0	94.6	59.
619C Raw, without tops 34.7 143.5 0.9 0.1 7.5 28.6 27.8 0.5 909.2 0.04 0.04 0.5 6.6 6.2 6.2 6.2 18.8 0.7 1008.0 0.01 0.01 0.4 2.0 6.2 0.08 and liquids 28.2 116.6 0.6 0.1 6.1 23.6 18.8 0.7 1008.0 0.01 0.01 0.4 2.0 6.2 0.08 Cooked, boiled, drained 31.2 129.1 0.9 0.1 6.7 31.1 29.2 0.6 1058.4 0.05 0.05 0.05 0.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	619C Raw, without tops 34.7 143.5 0.9 0.1 7.5 28.6 27.8 621 Solids and liquids 28.2 116.6 0.6 0.1 6.1 23.6 18.8 620 Cooked, boiled, drained 10.6 44.0 1.0 0.0 1.9 9.2 20.6 sh 630B Raw, untrimmed 22.1 91.7 1.8 0.1 4.0 17.9 39.6	Brussels Sprouts, Frozen	491		36.2	150.0	3.3	0.1	8.9	20.7	58.5	6.0	55.2		0.11	9.0	87.6	65.
621 Solids and liquids 28.2 116.6 0.6 0.1 6.1 23.6 18.8 0.7 1008.0 0.01 0.01 0.4 2.0 620 Cooked, boiled, drained 31.2 129.1 0.9 0.1 6.7 31.1 29.2 0.6 1058.4 0.05 0.05 0.5 6.0 sh 650B Raw, untrimmed 10.6 44.0 1.0 0.0 1.9 9.2 20.6 0.4 2.3 0.04 0.03 0.4 30.6 cen 63.2 22.1 91.7 1.8 0.1 4.0 17.9 39.6 0.6 3.0 0.05 0.05 0.05 56.4	621 Solids and liquids 28.2 116.6 0.6 0.1 6.1 23.6 18.8 620 Cooked, boiled, drained 31.2 129.1 0.9 0.1 6.7 31.1 29.2 sh 630B Raw, untrimmed 10.6 44.0 1.0 0.0 1.9 9.2 20.6 22.1 91.7 1.8 0.1 4.0 17.9 39.6		619C	Raw, without tops	34.7	143.5	6.0	0.1	7.5	28.6	27.8	0.5	909.2		0.04	0.5	9.9	15.
620 Cooked, boiled, drained 31.2 129.1 0.9 0.1 6.7 31.1 29.2 0.6 1058.4 0.05 0.05 0.5 6.0 sh 630B Raw, untrimmed 10.6 44.0 1.0 0.0 1.9 9.2 20.6 0.4 2.3 0.04 0.03 0.4 30.6 zen 632 22.1 91.7 1.8 0.1 4.0 17.9 39.6 0.6 3.0 0.05 0.05 0.5 56.4	620 Cooked, boiled, drained 31.2 129.1 0.9 0.1 6.7 31.1 29.2 sh 630B Raw, untrimmed 10.6 44.0 1.0 0.0 1.9 9.2 20.6 zen 632 22.1 91.7 1.8 0.1 4.0 17.9 39.6	Carrots, Canned	621	Solids and liquids	28.2	116.6	9.0	0.1	6.1	23.6	18.8	0.7	1008.0		0.01	0.4	2.0	10.
630B Raw, untrimmed 10.6 44.0 1.0 0.0 1.9 9.2 20.6 0.4 2.3 0.04 0.03 0.4 30.6 63.2 22.1 91.7 1.8 0.1 4.0 17.9 39.6 0.6 3.0 0.05 0.05 0.5 56.4	630B Raw, untrimmed 10.6 44.0 1.0 0.0 1.9 9.2 20.6 63.2 22.1 91.7 1.8 0.1 4.0 17.9 39.6	Carrots, Frozen	620	Cooked, boiled, drained	31.2	129.1	6.0	0.1	6.7	31.1	29.2	9.0	1058.4		0.05	0.5	0.9	10.
052 0.0 0.0 0.00 0.00 0.0 17.9 59.6 0.6 3.0 0.00 0.00 0.0 0.04	032 0.1 4.0 17.9 39.6	Cauliflower, Fresh	630B	Kaw, untrimmed	9.01	44.0	0.0	0.0	6.1	9.2	20.6	0.4	2.3		0.03	0.4	30.6	12
		Caumower, Frozen	037		1.77	7.16	×.	0.1	4.0	6./1	39.6	0.0	3.0	0.05	0.02	0.0	4.00	Ċ

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Commodity	Source	Specification	Food		Pro- tein	Fat	Carbo- hydrate	Cal-	Phos- phorus	Iron	Vita- min A	Thia- I	Ribo- flavin N	Niacin	Ascor- bic Acid	Total Folate
			cal	kJ	0.0	0.0	0.0	mg	mg	mg	RE	gm	mg	Z	mg	π
Celery. Fresh	637	Raw, green	12.8	53.1	9.0	0.0	2.7	27.6	19.8	0.2	18.1	0.02	0.02	0.3	8.9	9.8
Corn, Fresh	844A 847	Raw, white and yellow, with husks Average, creamed and kernel	34.8	144.0	1.1	0.3	7.5	1.0	37.7	0.2	14.5	0.05	0.04	0.7	4.3	11.9
	848					,		(	,	c	757	110	200	1 6	~	252
Corn, Frozen	856	Kernels cut off cob	82.6	341.7	2.9	0.4	18.6	2.8	73.7	8.O -	33.7	0.02	0.07	0.7	10.5	23.3
Cucumbers, Fresh	942	Raw, not pared	14.3	144.5	0.0	0.0	0.0	7.77	22.0	0.1	3.6	0.00	0.03	0.4	9.1	15.1
Onions, Not Processed	1412	Raw	34.8	2.44.7	J. L	0.0	15.0	42.8	65.0	. 9	2.0	90.0	0.07	0.1	13.7	57.2
Parsnips, Fresh	1473A	Raw, good quality	32.1	133.1	4. 6	0.1	5.5	6.6	44.4	0.7	24.5	0.13	0.05	1.4	10.3	9.8
Peas, Fresh	1517	Solids and liquids.													(	6
reas, cannon		regular pack	66.5	275.1	3.5	0.3	12.6	20.1	66.5	1.7	45.3	0.09	0.05	6.0	9.0	27.5
Peas, Frozen	1529		73.5	304.2	5.4	0.3	12.9	20.1	7.06	2.0	68.5	0.51	0.09	0.7	19.1	15.8
Peppers, Fresh	1545	Raw, sweet, green	18.1	75.1	0.1	1.0	5.9	4.	1.0.1	0.5	34.7	0.00	00.00	1.0	2.	
Pumpkin and Squash,	1832		223	1375	0	0 3	7.0	252	26.2	0.4	645.1	0.03	0.05	8.0	5.0	8.1
Canned	4		15.4	63.7	0.0	0.0	3.2	27.2	28.1	6.0	0.0	0.02	0.02	0.2	23.5	21.7
Radishes, Fresh	1919	Raw, common, without tops	39.4	162.8	6.0	0.0	9.4	5.95	33.4	0.3	49.6	0.05	0.05	6.0	36.8	16.8
Kutabagas, 11csii		Average, carrots, corn,								,	i i	0	0	(	1 2	, ,,
Vegetables		peas, beans	49.1	203.1	1.8	0.3	10.9	20.6	43.2	1.0	276.3	0.04	0.04	0.7	5.1	5.77
Mushrooms	6		272	113.1	36	0 )	4 3	×	113.4	0.7	0.0	0.00	0.44	4.2	2.9	22.5
Mushrooms, Fresh Mushrooms, Canned	1354A 1355	Kaw, good quaiity Solids and liquids	17.1	70.8	6.1	0.1	2.4	6.0	68.5	0.5	0.0	0.01	0.24	2.0	2.0	11.6
Potatoes					I	(	0	r,	6 6	7	00		0.03	1.4	163	10.6
Potatoes, White Sweet Potatoes	1785	Raw Raw	62.0 93.0	256.4 384.8	1.3	0.0	21.4	26.1	38.3	0.5	718.5	0.08	0.04	8.0	17.1	42.4
Meat																
Pork	1662 1672B	Carcass, medium-fat, excluding head and fat	294.2	1235.6	80 80 80	28.4	0.0	5.2	93.1	1.2	0.0	0.43	0.11	4.2	0.0	7.5
Beef	SL9															
	210	and good grades, excluding kidney and kidney fat	276.7	1162.1	13.6	23.4	0.0	8.0	120.8	2.0	16.0	90.0	0.11	5.6	0.0	6.1
	210	Carcass, good grade, excluding	2623	1059.7	14.3	21.2	0.0	8.4	127.5	2.1	14.7	90.0	0.12	0.9	0.0	6.1
Veal	2366	Carcass, average of medium-fat														
	2367	and thin classes, excluding kidney	136.2	563.1	15.2	7.8	0.0	8.6	154.8	2.3	0.0	0.11	0.20	8.4	0.0	4.0
Mutton and Lamb	Health	Carcass, as purchased														
	Welfare 114		194.3	803.3	9.6	16.9	0.0	3.5	96.2	4. 4	3491.0	0.08	0.12	9.8	0.0	2.7
Offal		Weighted average for all types	103.4	C:174	<u>+</u>	7.7	0.	0.10								
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Commodity	Source	Specification	Food		Pro- tein	Fat	Carbo- hydrate	Cal- cium	Phos- phorus	Iron	Vita- min A	Thia- mine	Ribo- flavin	Niacin	Ascor- bic Acid	Total Folate
			cal	K	50	6.0	0.0	mg	gm	mg	RE	mg	gm	ZE	mg	п
Canned meat	1783 2006 2008	Average	246.9	1020.8	17.0	18.9	0.7	6.7	88.7	1.6	0.0	0.29	0.20	5.0	0.0	4.3
Eggs b Eggs	01-123	Chicken, raw, average whole fresh and frozen	140.0	578.6	10.7	8.6	1.0	49.7	159.7	<u>.</u> 8	138.4	0.07	0.26	5.5	0.0	57.5
Poultry: Chicken	686B 718C	Average, total edible raw	130.4	539.1	13.0	8.2	0.0	7.8	133.6	2.	176.6	0.05	0.19	7.0		5.4
FowI	/310	edible, raw	219.2	906.4	12.8	18.2	0.0	7.8	122.8	1.0	238.4	0.04	0.13	9.8	1	5.6
Turkey	FAO 206 2327C	All classes, total edible, raw	160.4	663.3	14.8	10.8	0.0	24.2	129.5e	3.2	181.4	0.05	0.07	3.0	-	7.4
Duck	961C	Domesticated, total edible, raw	269.4	11114.0	13.2	23.6	0.0	8.2	145.4	£.3	272.1 <sup>d</sup>	90.0	0.15	5.9		9.4
Goose	1041C	Domesticated, total edible, raw	260.4	1076.8	12.0	23.1	0.0	7.3	129.5	1.1	272.1 <sup>d</sup>	0.05	0.13	7.3	-	8.4
Fish																
Fish, Shellfish Fresh and Frozen		Weighted average	9111.6	461.5	17.5	4.0	0.1	11.6	212.5	0.4	22.3	90.0	0.10	5.2	1.6	20.6
Fish, Cured (Smoked, Salted, Pickled)	797	Cod, dehydrated, lightly salted	378.0	1562.6	82.4	2.8	0.0	14.2 <sup>f</sup>	898.1	3.6	0.0	0.07	0.44	24.6	0.0	18.6
Fish and Shellfish, Canned		Weighted average	175.8	727.1	25.9	7.1	0.2	9.96	270.1	2.0	21.5	0.03	0.13	13.4	0.0	18.0
Dairy Products b Cheddar Cheese Process Cheese Other Cheese Cottage Cheese	01-009 01-042 01-007 01-012	Domestic, American type American, pasteurized Camembert, domestic Creamed	405.7 378.4 302.0 104.2	1677.5 1564.4 1248.4 430.8	25.1 22.3 19.9 12.6	33.4 31.5 24.4 4.5	1.2	727.1 620.4 390.6 60.4	516.2 750.8 349.3 132.8	0.6 0.4 0.3 0.1	305.3 292.2 254.0 48.4	0.02 0.02 0.02 0.02	0.37 0.35 0.48 0.16	5.8 8.4 8.3 5.3 5.3	0.0	18.4 7.7 6.2 12.2
Evaporated Whole Milk Condensed Whole Milk	01-096	Unswectened, ascorbic acid added Canned, sweetened	135.5	560.4	6.8	8.7	10.1	262.8 285.7	204.2 255.3	0.2	54.4	0.04	0.31	2.1	14.1 <sup>a</sup> 2.6	8.0
Evaporated Partly Skimmed Milk Powdered Whole Milk	5001		110.8	458.4	6.7	4.0	9.8	288.2 919.7	225.8	0.2	48.3	0.07	0.42	1.9	1.1	6.5
Powdered Skim Milk Powdered Butter Milk Powdered Whey Fluid Whole Milk	01-092 01-094 01-115 01-077	Non-fat solids, instant, fortified Sweet 3.3% fat	361.1 390.0 355.5 62.0	1492.8 1612.2 1469.7 256.2	35.3 34.5 13.0 3.3	0.7 5.8 1.0 3.3	52.6 49.4 75.0 4.6	1240.6 1193.7 802.4 120.4	992.6 940.0 939.1 94.2	0.3	8.8 54.4 10.0 31.3	0.41 0.39 0.51 0.03	1.74	9.3	5.6	5.0 4.7 111.7 5.1
Fluid Buttermilk	01-088		40.6	168.2	3,3	0.8	4 %	117.3	0.06	0.0	1.2	0.03	0.15	\ 	0.9 - con	continued -

NUTRITIVE VALUE OF THE EDIBLE PORTION OF 100 g OF FOOD AS PURCHASED: FOOD DISAPPEARANCE DATA (concluded) TABLE J.1.

	Source	Specification	Energy		tein	Fat	hydrate	cium	phorus	Iron	A	mine	flavin	Niacin	Acid	Folate
			cal	kJ	0.0	5.0	5.0	mg	mg	mg	RE	mg	mg	Z	mg	ц
Fluid Partly Skimmed	01-079	2.0% fat	000	2 200	,	-	0	7 2 2	1		-	0		0		
Skim Milk	01-085		35.1	145.1	3.4	6.1	4. 4 o. x	124.0	101.7	0.0	2.1.2	0.03	0.10	6.0	6.0	5.2
	01-103	Made with 2.0% milk	72.0	297.5	3.2	2.0	10.4	114.4	102.4	0.2	25.4	0.03	0.16	0.0	0.9	2 4
Yoghurt	01-116	Made with whole milk	62.0	256.2	3.4	3.2	4.6	121.5	95.5	0.0	30.2	0.02	0.14	0.9	0.5	7.5
	01-111	Vanilla shake, thick	112.6	465.7	3.8	3.0	17.8	147.3	116.2	0.1	28.2	0.03	0.19	-	0.0	9.9
Ice Cream 8	01-077	Fluid whole	124.9	516.4	10.2	0.6	14.4	372.1	291.1	0.1	8.96	0.11	0.50	2.8	2.9	15.8
	01-066	Orange	141.1	583.3	1.1	2.0	30.6	54.0	38.8	0.1	20.2	0.01	0.04	0.0	2.0	7.3
	1143		153.2	633.3	20.0	5.1	22.5	157.2	125.0	0.1	63.5	0.05	0.22	0.1	2.0	2.1
Other Milk By-Products	01-096 01-091	Evaporated whole milk Dry, skim, regular	365.3	560.4	96.8	7.0	10.1	262.8 1266.8	204.2 976.0	0.2	54.4	0.04	0.31	9.3	14.1 <sup>a</sup>	8.0 5.0
Beverages																
Coffee	799	Dry powder	130.0	537.5	0.0	0.0	35.2	180.4	386.0	5.6	0.0	0.00	0.20	30.8	0.0	0.0
Cocca	601	nowder, plain	267.1	1104 2	17.4	10.1	51.0	123.0	6547	10.7	0.9	0.11	0.46	2.4	0.0	0
Soft Drinks	404	Cola type	39.3	162.4	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0
Miscellaneous																
Potatoes, Processed	1789	Average French fries and														
	1809	potato chips	424.3	1754.2	4.8	26.7	43.3	26.8	134.0	1.5	0.0	0.16	0.07	3.9	18.6	32.3
Sauces, Dressing,	1932	Average fresh,														
Spicads	1942	Thousand Island	5477	22642	80	26.7	0	13.4	10.9	20	7 00	0.03	0.03	0	0	0 3
Peanut Butter	1498	Small amounts of fats,					0	1.0.1	0.7			0.0	0.0	0.0	0.7	0.0
		sweetener and salt added	586.6	2425.3	25.7	8.64	19.6	61.4	398.1	2.0	0.0	0.11	0.11	20.9	0.0	9.62
Vinegar	2407	Distilled	12.0	50.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0
Soups	2078	Chicken noodle	53.4	220.8	2.8	1.6	9.9	7.0	30.2	0.4	3.0	0.01	0.01	0.7	0.0	2.0
Pickles and Relishes	1558	Average of pickles,														
	1565	relishes and olives	68.2	282.2	8.0	9.0	15.9	24.0	23.6	1.6	10.8	0.00	0.02	0.0	6.9	0.0
Pasta	1301	Macaroni, unenriched	371.9	1537.5	12.6	1.2	75.8	27.2	163.2	1.3	0.0	0.09	0.05	1.7	0.0	10.7

<sup>a</sup> Added by manufacturer in accordance with Food and Drug Regulations. No suitable value found but measurable amount may be present.

<sup>b</sup> Figures used are from USDA, Handbook No. 8-1.

<sup>e</sup> The figure used is that for roaster chicken. c Vitamin A value for fresh apples × 4.5. <sup>d</sup> FAO Nutritional Studies, No. 11-1954.

g Milk equivalent — adjusted for higher butterfat content.

h Figures used are for evaporated whole milk as consumption was 9x that of condensed whole milk and 142x that of malted milk.

Source: Health and Welfare Canada, Nutrition Canada Survey Food-Nutrient Conversion File (based on Handbook #8, with additional Canadian foods), unless otherwise stated.

#### **APPENDIX K**

NUTRITIVE VALUE OF THE EDIBLE PORTION OF 100 g OF FOOD AS PURCHASED: FOOD SURVEY DATA

Table K.1

TABLE K.1. NUTRITIVE VALUE OF THE EDIBLE PORTION OF 100 g OF FOOD AS PURCHASED; FOOD SURVEY DATA

Commodity	Source	Specification	Food		Pro- tein	Fat	Carbo- hydrate	Cal- cium	Phos- phorus	Iron	Vita- min A	Thia- mine	Ribo- flavin	Niacin	Ascor- bic Acid	Total Folate
			cal	Z	60	0.0	50	mg	mg	gm	RE	mg	mg	Z	mg	Ħ
Dairy Products <sup>a</sup> Milk																
Homogenized Milk	01-077	Fluid, 3.3% fat	62.0	256.2	3.3	3.3	4.6	120.4	94.2	0.0	31.3	0.03	0.16	0.0	0.0	5.1
Chim Milk	01-0/9	Fiuld, 2.0% lat	35.1	145.1	2.5	0.1	t 4	124.4	35.1	0.0	1.2	0.03	0.14	0.9	0.9	5.3
Chocolate Milk	01-103	Made with 2% milk	72.0	297.5	3.2	2.0	10.4	114.4	102.4	0.2	25.4	0.03	0.16	8.0	6.0	8.4
Unspecified Milk	01-079	Average, nomogenized and low fat milk	56.0	231.5	3.3	2.6	4.7	121.5	95.1	0.0	26.2	0.03	0.16	6.0	6.0	5.1
Other Dairy Products Buttermilk	01-088		40.6	168.2	3.3	0.8	8.4	117.3	0.06	0.0	1.2	0.03	0.15	0.7	6.0	5.5
Condensed and Evaporated Milk b	01-096	Evaporated whole milk	135.5	560.4	6.8	7.6	10.1	262.8	204.2	0.2	54.4	0.04	0.31	1.9	14.1°	8.0
Powdered Milk	01-092	Non-fat solids, instant	361.1	1 492.8	35.3	0.7	52.6	240.6	992.6	0.3	∞ ∞.	0.41	1.74	9.3	5.6	5.0
Cream	01050	milk), fluid	131.3	542.8	2.9	11.6	4.3	105.7	0.96	0.0	107.7	0.03	0.14	0.1	8.0	2.4
rresn, wnipping, Table Cream	050-10	Light, confee of table	196.8	814.0	2.7	19.4	3.6	8.96	80.4	0.0	183.5	0.03	0.14	0.1	0.7	2.2
Ice Cream, Sherbet Ice Milk	01-061	Ice cream, approximately 10% fat	204.0	843.3	3.6	10.8	24.0	133.1	101.7	0.0	100.8	0.03	0.24	0.1	0.5	2.2
Sour Cream, Chip Dips	01-056	Sour cream, cultured	216.0	892.8	3.1	21.1	4.3	117.3	85.5	0.0	9.961	0.03	0.14	0.1 <sup>d</sup>	0.8	10.8
All Other Cream	01-050	Light coffee or table	196.8	814.0	7.7	19.4	3.0	121.5	80.4	0.0	30.2	0.03	0.14	0.0		7.7
Yoghurt Butter	01-116	Made Irom whole milk	722.4	2.986.6	0.8	81.7	0.0	23.7	22.8	0.0	93.3	0.00	0.03	3	0.0	2.8.
Cheddar Cheese	01-009	Domestic, American type	405.7	1 677.5	25.1	33.4	1.2	727.1	516.2	9.0	305.3	0.02	0.37	5.8	0.0	18.4
Packaged Process Cheese, Spreads	01-047	Fasteurized, American	378.4	1 564.4	22.3	31.5	1.6	620.4	750.8	0.4	292.2	0.03	0.35	5.3	0.0	7.7
Cottage Cheese	01-012	Creamed	104.2	430.8	12.6	4.5	2.7	60.4	132.8	0.1	48.4	0.02	0.16	2.5	0.0	12.2
Other Cheeses	01-007	Camembert, domestic	302.0	1 248.4	19.9	24.4	0.4	390.6	349.3	0.3	254.0	0.02	0.48	%. ∞.	0.0	6.2
Unclassified Cheese	01-040	food, American	330.8	1 368.0	19.7	24.8	7.3	578.8	462.6	8.0	276.3	0.02	0.44	4.7	0.0	7.0
Other Dairy Products	01-079	Milk, 2% fat	50.0	206.6	3.3	1.9	4.00	122.6	95.7	0.0	21.2	0.03	0.16	6.0	6.0	5.1
Eggs Grade A	01-123	Chicken, raw, average whole	-	7 0 1 4	10	0	-	7 07	1507	0	120.4	0.07	76.0	V		272
Other Grades and	01-123	rresh and frozen Chicken, raw, average, whole	140.0	0.0/0	10.7		0.1	47.1	1.79.1	0.1	1.00.1	0.0	0.20	5.5	0.0	J
Sizes		fresh and frozen	140.0	578.6	10.7	8.6	1.0	49.7	159.7	8. 8.	138.4	0.07	0.26	5.5	0.0	57.5
Unclassified Eggs	01-123	Chicken, raw, average, whole fresh and frozen	140.0	578.6	10.7	8.6	1.0	49.7	159.7	∞.	138.4	0.07	0.26	5.5	0.0	57.5
Bakery Products e Bread	5459	White, enriched	271.1	1 120.8	7.00	3.2	50.8	119.9	87.6	2.4	0.0	0.24	0.18	3.0	0.0	35.7
Cookies, Biscuits, Wafers	<u>×</u>	Commercial type	474.7	1 962.6	5.4	21.1	70.2	39.3	114.9	8.	36.2	0.03	0.07	0.4	0.0	9.4

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Total Folate	¥	16.2	6.1	4.7	35.7	10.0	29.1	56.5	21.4	0.0	10.7 29.0 28.5	5.3	6.3
Ascor- bic Acid F	mg	0.0	0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Niacin	NE	2.6	0.4	0.2	3.5	16.7	14.7	4.0	0.9	1.1	1.7	5.8	6.9
Ribo- flavin	mg	0.00	0.01	0.07	0.16	2.32	2.44	0.14	0.05	0.07	0.05	0.11	0.13
Thia- mine	mg	0.00	0.01	0.01	0.26	1.82	1.31	0.59	0.05	0.11	0.09	0.05	0.06
Vita- min A	RE	0.0	3.0	18.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0 102.8	18.7	11.5
Iron	gm	6.0	0.3	0.5	4. 5.	9.08	9.6	4.5	0.8	4.	1.3	2.0	2.2
Phos- phorus	mg	7.06	22.1	180.4	85.6	740.8	159.5	408.2	87.6 87.6 272.1	594.7	163.2 94.7 165.3	123.5	139.6
Cal- cium	mg	18.3	8.0	8.66	127.0	831.6	30.8	53.4	16.1 16.1 151.2	453.6	27.2 24.1 6.0	7.5	9.3
Carbo- hydrate	50,	73.3	38.4	63.3	53.4	71.1	80.1	68.7	76.7 76.7 79.0	76.3	75.8 81.0 77.4	0.0	0.0
Fat	5.0	9.1		10.7	5.6	2.9	1.3	7.4	1.0 1.0 12.0	<u>~</u>	1.2 0.4 2.6	31.4	19.8
Pro-	50	9.1	2.2	3.9	∞ € 7. ≕	15.2	8.9	14.3	10.5	9.8	12.6 6.7 7.8	13.4	15.2
	kJ	1 894.0	1 066.6	1 462.6	1 241.7 1 627.7	1 533.3	1 487.5	1 625.1	1 516.6 1 516.6 1 808.4	1 483.5	1 537.5 1 512.6 1 533.3	1 407.3	1 010.8 948.6
Food Energy	cal	458.1	258.0	353.8	300.3 393.7	370.9	359.8	393.1	366.8 366.8 437.4	358.8	371.9 365.9 370.9	340.4	244.5 229.4
Specification		Saltines	Apple pic, baked, piecrust made with enriched flour White cake, from mix, made	with egg whites, water, chocolate icing	Commercial plain rolls and buns, unenriched Cake type	Mixed, enriched, dry	Weighted average wheat, corn, rice and oat types	Oatmeal or rolled oats	Wheat, all purpose Wheat, all purpose Dry form, white	Pancake and waffle mixes, plain and buttermilk	Macaroni, unenriched White, raw, unenriched Corn flour	T-bone steak, average of choice and good grades T-bone steak, good grade	Kump, average of choice and good grades Rump, good grade
Source		916 Health and Welfare	(374) 1566 567		6903 957 Health and Welfare (377)	69		1390	2439 2440 566	1458	1301	267 272	357A 362A
Commodity		Crackers	Pastries, Pies Cake, Chocolate	Eclairs, Pudding	Rolls and Buns, Muffins, Crumpets Doughnuts	Cereal Products <sup>e</sup> Baby Cereal	Breakfast Cereal Prepared	Breakfast Cereal to be Cooked	Flour — Enriched Flour — Unenriched Mixes — Cake, Pastry	Other Mixes — Pancake, Pudding, etc.	Pasta Products — Macaroni, Spaghetti Rice Other Cereals	Meat and Poultry SMIBeef Loin Cuts	Rump or Round Cuts

TABLE K.1. NUTRITIVE VALUE OF THE EDIBLE PORTION OF 100 g OF FOOD AS PURCHASED: FOOD SURVEY DATA (continued)

Total Folate	Ħ	8.9	6.5	7.0	0.9	0.9	7.4	4.	7.7		6.3	0,0	6.3			6.3	6.3			2.1		0.6	0.6	7.1	7.7	7.0	3.7			6.7			6.7
Ascor- bic Acid	gm	1							1											ŀ			1	1			+			-			
Niacin	Z	0.9	6.2	t.	0.6	0.6	9.0	0.0	7.4		99	0.0	8.9			9.9	8.9			4.0		7.4	7.4	6.3	6.3	5.0	3.00			6.1			6.1
Ribo- flavin	mg	0.11	0.12	0.15	0.18	0.18	0.16	0.10	0.16		0.13	0.10	0.13			0.13	0.13			0.09		0.18	0.18	0.15	0.16	0.12	0.16			0.14			0.14
Thia- mine	mg	0.05	0.06	0.00	0.09	0.09	0.07	0.0	0.07		0.06	0.00	90.0			90.0	90.0			0.39		0.76	0.76	0.65	0.65	0.52	0.42			0.62			0.62
Vita- min A	RE	19.4	16.0	1.7.1	3.0	3.0	12.0	9.0	12.0		11.5	C: 1 1	10.2			11.5	10.2			0.0		0.0	0.0	0.0	0.0	0.0	0.0			0.0			0.0
Iron	mg	2.0	2.1	7:1	3.2	3,3	2.9	3.0	2.7		23		2.4			2.3	2.4			1.2		2.4	2.4	2.0	2.0	1.6	1.4			1.9			1.9
Phos- phorus	mg	140.0	138.6	1.7.61	203.6	204.6	176.4	103.4	157.2		142 2	7:7	146.5			142.2	146.5			9.92		179.4	179.4	153.6	152.5	116.5	92.7			144.6			144.6
Cal-	mg	00.3	%. o		26.2	13.1	11.6	17.0	10.0		0	2.	9.4			0.6	9.4			5.0		0.6	0.6	7.9	7.7	0.9	5.0			7.4			7.4
Carbo- hydrate	5.0	0.0	0.0	2	0.0	0.0	0.0	0.0	0.0		0.0	0	0.0		,	0.0	0.0			0.0		0.0	0.0	0.0	0.0	0.0	0.0			0.0			0.0
Tat	60	34.6	28.0	1.1.1	5.4	5.1	20.4	5./1	21.3		19.5	:	17.4			19.5	17.4			8.19		26.8	24.8	19.8	22.8	32.9	51.2			22.0			22.0
Pro- tein	5.0	13.7	14.2	) F	21.8	21.9	19.1	17.0	18.0		15.3	;	15.8			15.3	15.8			8.2		16.0	15.9	13.6	13.6	10.8	9.4			12.9			12.9
	kJ	1 537.3	1 298.8		589.7	5/9.1	1 100.0	0.066	1 117.3		8 866		931.5		(	8.866	931.5			2 450.2		1 283.5	1 208.4	981.1	1 090.8	1 420.4	2 075.1			1 052.4			1 052.4
Food	cal	371.8	314.2		142.6	140.1	266.1	240.3	270.1		2416	2	225.3			241.6	225.3			592.7		310.4	292.3	237.3	263.8	343.5	501.9			254.5			254.5
Specification		Entire rib, choice grade Chuck rib, average of choice	and good grades Chuck rib good grade	Flank steak, average of	choice and good grades	Flank steak, good grade Hindshank, average of	choice and good grades	Raw, regular ground		Carcass trimmed to	retail level, average of	Carcass, trimmed to	retail level, good grade	Carcass, trimmed to	retail level, average of	Choice and good grades	retail level, good grade		Bacon or belly, raw, whole-	sale cut, medium-fat class	Cuts trimmed to retail	level, raw, medium-fat class Picnic, medium-fat class		Fresh, medium-fat class	Medium fat, with bone	Fresh, medium-fat class	Links or bulk, raw	Composite of trimmed	shoulder, and spare-ribs).	raw, medium-fat class	Composite of trimmed	shoulder, and spare-ribs).	raw medium-fat class
Source		327A 223A	228A 228A	243	245	243 247B	252B	369		214	212	215		214	215	215	1		669B		698B	749B		715A	1698A	1675A	2013	1682A			1682A		
Commodity		Rib Cuts Shoulder Cuts		Brisket, Flank		Stewing Beef		Hamburger and	Minced Beef	Other Beef				Unspecified Beef				Pork	Bacon		Ham-Smoked, Cooked	and Uncooked Cottage Rolls.	Smoked Picnic	Loin	Ham, Fresh	Shoulder	Sausage	Other Pork			Unspecified Pork		

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Commodity	Source	Specification	Food		Pro- tein	Fat	Carbo- hydrate	Cal-	Phos- phorus	Iron	Vita- min A	Thia- mine	Ribo- flavin	Niacin	Ascor- bic Acid	Total Folate
			cal	kJ	50	00	0.0	mg	mg	mg	RE	mg	gm	NE	gm	п
Other Meat Veal	2369A 2371A	Chuck, average of medium-fat and thin classes	124.4	580.8	15.6	6.4	0.0	8.4	124.4	2.3	1	0.11	0.20	9.6		1.
Lamb and Mutton	1176	Composite of cuts (leg, loin, rib and shoulder) trimmed to retail level, choice grade	222.6	920.6	13.9	18.0	0.0	9.1	161.2	1.0		0.12	0.16	7.0	I	3.7
Liver — All Kinds, Excluding Chicken Bologna	1266 1268 1982	Average beef and calf, raw All samples	141.1	1 266.6	12.2	27.7	Ξ	7.0	129.0	7.7	10 039.6	0.22	2.98	4.4	33.7	201.6
Wieners Other Cooked Meate	1994 2008 <sup>f</sup>	Frankfurters, raw, all samples	311.4	1 287.5	12.6	27.8	1.8	7.0	134.0	1.9	,	0.16	0.20	4.4	1	4.0
Otilei Cooked Meas	1703	beef, chicken, and turkey)	249.9	1 033.3	17.6	19.3	0.0	21.3	177.8	5.9	78.2	0.03	0.22	3.6		0.9
Canned Meats	2006	Average canned meats	246.9	1 020.8	17.0	18.9	0.7	6.7	88.7	1.6	0.0	0.29	0.20	5.0	0.0	4.3
Other — Heart, Game Kidney, etc. Packaged Sliced Meats	1159 1110 2017	Average, Iean, raw beet heart, and raw beef kidney Salami, dry	119.9	496.0 1 875.1	16.3 24.0	5.2	0.8	8.0	208.6	5.7	107.3	0.44	1.71 0.24	10.6	8.5	42.2
Poultry Chicken	718C	Fresh, frozen, cut up, raw roaster	175.8	727.1	13.4	13.1	0.0	7.3	129.5	Ξ	203.0	0.05	0.13	7.7		5.6
Turkey	2327C	All classes, total														
Other Poultry	FAO 206 961C	edible, raw Duck, domesticated, raw	160.4 269.4	663.3	14.8	10.8	0.0	24.2	129.58 145.4	3.2	181.4 272.1 <sup>h</sup>	0.05	0.07	3.0		7.4
Fish Cod, Fresh, Frozen, Smoked	794B	Raw, flesh only	78.6	325.1	17.7	0.3	0.0	10.0	195.5	0.4	0.0	0.05	0.07	4.9	2.0	18.6
Halibut, Fresh, Frozen	1103B	Atlantic and Pacific, raw, flesh only	100.8	416.6	21.0	1.2	0.0	13.1	212.6	0.7	133.0	0.07	0.07	11.8	0.0	12.4
Salmon, Fresh, Frozen, Smoked Canned Salmon	1946B 1948B 1953	Average, Atlantic and Chinook (King), raw, flesh only Average Cohoe, pink	221.2	914.6	20.9	14.6	0.0	79.6	245.4	0.9	93.7	0.09	0.15	6.9	0.6	26.6
Canned Tuna	1955 1957 2324	sockeye, solids and liquid, including bones Canned in oil drained solids	156.2	646.0	20.6	7.4	0.0	234.8	308.4	0.9	38.3	0.03	0.17	10.9	0.0	26.6
Other Canned Fish and Seafood	ported	Sardines, Atlantic canned in oil, drained solids	167.8	693.7	19.8	9.1	0.0	361.2	412.4	2.4	54.5	0.03	0.16	7.6	0.0	12.8
Other Fish and Sealood	1103B 1946B	Average, cod, namour (Atlantic, Pacific) and Atlan- tic salmon, raw, flesh only	132.7	548.6	20.4	5.0	0.0	34.2	198.5	9.0	44.3	0.04	0.07	9.2	3.6	19.2

TABLE K.1. NUTRITIVE VALUE OF THE EDIBLE PORTION OF 100 g OF FOOD AS PURCHASED: FOOD SURVEY DATA (continued)

Commodity	Source	Specification	Food Energy		Pro- tein	Fat	Carbo- hydrate	Cal-	Phos- phorus	Iron	Vita- min A	Thia- mine	Ribo- flavin	Niacin	Ascor- bic Acid	Total Folate
			cal	Ŋ	0.0	රුව	5.0	mg	gm	mg	RE	mg	gm	NE	gm	μ
Unspecified Fish	749B 1103B	Average, cod, halibut (Atlantic, Pacific) and Atlan- tic salmon, raw, flesh only	132.7	548.6	20.4	5.0	0.0	34.2	198.5	1.0	44.3	0.04	0.07	9.2	3.6	19.2
Fats and Oils Margarine Vegetable Shortening Putter Spread Tow. Eat	1317	Vitamin A added Cooking fats Des fr Dier Backey	725.7	3 683.7	0.0	81.6	0.0	20.1	16.1	0.0	1 076.5 <sup>a</sup>	0.00	0.00	0.0	0.0	0.0
Margarine Spread Lard	1241	Margarine	352.8	1 458.4 3 758.6	0.0	39.8	0.0	0.0	0.0	0.0	355.3 <sup>a</sup>	0.00	0.00	0.0	0.0	0.0
Olive Salad Dressing and	1401	Oils, salad or cooking Average, fresh,	891.1	3 683.7	0.0	100.8	0.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0
Mayonnaise	1938	mayonnaise, Thousand Island dressing	547.7	2 264.2	0.8	56.7	11.8	13.4	19.8	0.5	90.7	0.01	0.03	0.0	2.8	0.3
Peanut Butter Other Fats and Oils	1498	Small amounts of added fat, sweetener, and salt Oils, salad or cooking	586.6	2 425.3 3 683.7	25.7	49.8	19.6	61.4	398.1	2.0	0.0	0.11	0.11	20.9	0.0	79.6
Beverages Coffee, Regular	1991	Regular ground, roasted	52.0	214.8	0.0	0.0	14.1	72.1	154.4	2.2	0.0	0.00	0.08	12.3	0.0	0.0
Coffee, Instant	799	Instant (water-soluble solids) dry powder	130.0	537.5	0.0	0.0	35.2	180.4	386.0	5.6	0.0	0.00	0.20	30.8	0.0	0.0
Tea, Instant Iced Tea Mix	9/77	Instant (water-soluble solids), carbohydrate added, dry powder	296.5	1 226.0	0.0	0.0	9.08	11.0	0.0	1.6	0.0	0.00	0.94	8.9	0.0	0.0
Solic Delinks	†0 <del>†</del>	Cola-type, carbonates, non-alcoholic	39.3	162.4	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0
Drinks		Noolald	54.4	224.8	0.0	0.0	14.1	0.0	0.0	0.0	0.0	0.00	0.00	0.0	0.0	0.0
Miscellaneous Groceries Candy, Gum Chocolate, Marshmallows Sugar, All Kinds	586 607 2230	Average sweet chocolate, gum drops, and starch jelly pieces Granulated beet or cane	441.0 388.0	1 823.1	2.2	18.0	73.2	50.4	71.5	0.9	1.5	0.00	0.00	0.0	0.0	0.0
Canned ruddings, rood Powder Molasses, Honey, Syrup	1134	Chocolate Instant puoting mix with starch base	359.8	1 487.7	3.1	1.6	91.5	246.9	88.7	2.0	0.0	0.01	0.02	0.3	0.0	0.0
Decorated Common D	1342 2051	Average	290.6	1 201.5	0.1	0.0	76.3	99.4	24.2	1.5	0.0	0.02	0.07	0.1	0.3	0.5
Marmalade Salt, Spices, Mustard	1318	Average, marmarac, jams and preserves Salt, table	266.6	1 102.2 0.0	0.0	0.1	0.0	27.7	0.0	0.8	1.5	0.00	0.02	0.0	4.0	8.0

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Commodity	Source	Specification	Food		Pro- tein	Fat	Carbo- hydrate	Cal-	Phos- phorus	Iron	Vita- min A	Thia- mine	Ribo- flavin	Niacin	Ascor- bic Acid	Total Folate
			cal	kJ	۵۵	D.O	50	mg	gm	mg	RE	gm	mg	NE	mg	π
Pickles, Relish, Olives, Vinegar	1558 to 1565	Average of dill, fresh (breadand-butter), sweet and sour cucumber pickles, sweet and sour chowchow and sweet and														
Catsup, Chili Sance.	2286		68.2	282.2	8.0	9.0	15.9	24.0	23.6	1.6	10.8	0.00	0.02	0.0	6.9	0.0
Gravy Mixes Sour Canned Ready	2078	Chicken noodle condensed	106.8	441.7	2.0	0.4	25.6	22.1	50.4	8.0	141.1	0.09	0.07	1.6	15.1	14.9
to Serve	2115	commercial Debydrated onion sour mix	53.4	220.8	2.8	1.6	9.9	7.0	30.2	0.4	3.0	0.01	0.01	0.7	0.0	2.0
Rahy Food Canned	27	commercial	351.8	1 454.4	14.0	10.6	54.3	7.76	113.9	1.4	0.9	0.11	0.07	0.7	15.1	0.0
or Bottled	92	and applesance, canned	60.4	250.0	1.5	9.0	12.8	8.0	18.1	0.4	64.5	0.01	0.03	9.0	1.0	1.8
Health and Welfare Non-Dairy Substitutes,	329	Tang Average, Whipped cream	54.8	226.8	0.0	0.0	14.2	0.0	0.0	0.0	0.0	0.00	0.00	0.0	16.2°	0.0
Sunday Sauce Sandwich Spreads	1940	substitute and fudge-type chocolate syrup Mayonnaise, commercial	302.4	1 250.2 1 812.6	4.0	18.0	36.2	80.6	80.1	0.6	108.3	0.02	0.12	0.2	0.0	0.1
Canned and Dried Fruits																
Canned Peaches Canned Pears	1483 1507	Heavy syrup pack Heavy syrup pack	78.6	325.1	0.4	0.1	20.2	5.0	12.0	0.3	43.3	0.01	0.01	0.6	3.0	3.3
Canned Pineapples Canned Cherries	1616 671B	Heavy syrup pack Sweet, without pits, heavy	74.6	308.4	0.3	0.1	19.5	1.1	5.0	0.3	5.0	0.07	0.01	0.2	7.0	9.01
Canned Plums	1645	syrup pack	81.6	337.5	0.0	0.2	20.6	15.1	13.1	0.3	6.0	0.01	0.01	0.2	3.0	7.5
Canned Fruit Cocktail Other Canned Fruit.	1023	Heavy syrup pack Heavy syrup pack Fruit salad heavy	76.6	316.6	0.0	0.1	19.8	9.0	12.0	0.4	14.1	0.01	0.01	4.0	2.0	6.0
Pie Filling Unspecified Canned	1023	syrup pack Fruit cocktail, heavy	75.6	312.4	0.3	0.1	19.5	8.0		0.3	45.3	0.01	0.03	9.0	2.0	6.0
Fruit Canned Apple Juice	2.7	syrup pack Canned or bottled fortified	76.6	316.6	0.4	0.1	19.8	0.6	12.0	0.4	14.1 9.0h	0.01	0.01	0.4	2.0	0.0
Canned Orange Juice	1432	Weighted average of canned							2.						1 4	
Other Canned or	1433	sweetened and unsweetened Grape juice, fortified	49.0	202.6	8.0	0.5	11.4	10.0		0.4	20.1	0.07	0.01	0.3	40.3	13.0
Bottled Fruit Juice	1070	company but the	66.5	275.1	0.2	0.0	16.7	11.1	12.0	0.3	8.0	0.03	0.01	0.2	15.9°	1.4
Fruit Juice Raisins	1846	Oraperturi and orange juice, unsweetened, canned Natural, unbleached	43.3 291.3	179.3	0.6	0.2	10.1	10.0	15.1	0.3	10.0	0.05	0.01	0.2	34.2	3.8
Other Dried and Preserved Fruit	18181	Frunes, dried, medium	218.4	903.3	1.8	0.5	57.7	57.5	9.79	3.3	137.0	0.07	0.14	1.3	2.5	3.7
Canned and Dried Vegetables Canned Peas	les 1517	Green, immature, regular pack	66.5	275.1	3.5	0.3	12.6	20.1	66.5	7.	45.3	0.09	0.05	6.0	0.6	22.5
															- continued	inued -

NUTRITIVE VALUE OF THE EDIBLE PORTION OF 100 g OF FOOD AS PURCHASED: FOOD SURVEY DATA (continued) TABLE K.1.

Commodity	Source	Specification	Food		Pro- tein	Tat	Carbo- hydrate	Cal- cium	Phos- phorus	Iron	Vita- min A	Thia- mine	Ribo- flavin	Niacin	Ascor- bic Acid	Total Folate
			cal	Ŋ	0.0	60	O.D	mg	mg	mg	RE	mg	mg	Z	mg	ц
Canned Corn, Kernel or Creamed Canned Baked Beans	848 848 156	Average cream style and vacuum-pack, whole kernel With pork and tomato sauce	83.1	343.7	2.3	0.5	20.4	3.0	65.0 92.7	0.5	34.2	0.03	0.05	1.1	5.0	23.0
Canned Tomatoes Other Canned Vegetables	183 197 2284 621	Average green and yellow beans, regular pack Ripe, regular pack	18.6 21.1 28.2	77.1 87.5 116.6	0.9	0.1	4.2	34.2 6.0 25.2	21.1	1.2 0.5 0.7	17.6 90.7 1 008.0	0.03	0.03	0.4	4.5 17.1 2.0	33.7 3.0 10.0
Unspectfied Canned Vegetables Canned Tomato Juice	2288	Average carrots, corn, peas, beans Canned or bottled, regular	49.1	203.1	<u>~</u>	0.3	10.9	20.6	43.2	1.0	276.3	0.04	0.04	0.7	5.1	22.3
Other Vegetable Juices	2396	pack Vegetable juice cocktail,	19.1	70.8	6.0	0.1	£. 4 £. 3	7.0	18.1	6.0	9.08	0.05	0.03	8.0	16.1	10.7
Dried Vegetables Unspecified Beans	154	Mature beans, white, raw Lima beans, mature seeds, dry, raw	342.7	1416.6	22.4	1.6	61.8	145.1	428.4	7.8	0.0	0.64	0.22	7.0	0.0	131.0
Fresh Fruits Oranges Bananas	1420 141A	All varieties, raw Raw, common, good quality Freshly, barnosted and	36.0	149.1	0.7	0.1	8.9	30.1	14.7	0.2	14.7	0.07	0.02	0.2	36.8	17.6
Grapefruit Strawberries Raspberries	1053 2217A 1849	Raw, all varieties Raw, good quality Raw, red	46.7 20.6 35.8 55.7	193.3 85.3 148.0 230.4	0.1 0.2 0.6 1.1	0.0 0.0 0.4 0.4	11.6 5.3 8.1 13.2	5.6 8.0 20.3 21.5	8.0 8.0 20.3 21.5	0.2	7.2 4.0 5.8 12.7	0.02 0.01 0.02 0.02	0.01 0.01 0.06 0.08	0.0 0.1 0.5 0.8	3.2 19.1 57.0 24.4	4.6 5.0 15.4 4.9
Grapes Peaches Melons Cherries	1084A 1479A 2424 662	American type, Niagara, Concord, good quality, raw Raw, peeled fruit Watermelon, raw Weighted average of sweet	43.8 33.3 13.1	181.1	0.8	0.6	9.9	10.1	7.6	0.2	6.3 116.6 29.7	0.03	0.01	0.01	2.5 6.1 3.5	3.1 2.9 0.0
Plums Pears Other Fresh Fruit	663 1639 1502A 1611	and sour Raw, Damson Raw, good quality Pineapples, raw	59.3 60.5 55.9 27.2	245.3 250.2 231.3 112.6	0.4	0.2 0.0 0.3 0.1	14.7 16.3 14.0 7.1	20.1 16.5 7.3 8.9	17.4 15.6 10.1 4.2	0.3	45.5 27.5 1.8 3.6	0.04 0.07 0.01 0.04	0.07 0.02 0.03 0.03	0.3	9.1 5.0 <sup>h</sup> 3.6 8.9	6.8 3.2 10.3 5.5
Fresh Vegetables Potatoes Tomatoes Lettuce Carrots Celery Onions Regular and	1785 2282A 1258A 619C 637	Raw Ripe, raw, whole Iceberg, good quality Raw, without tops Raw, green	62.0 22.1 12.4 34.7 12.8	256.4 91.7 51.5 143.5 53.1	1.7 1.1 0.8 0.9 0.6	0.0 0.2 0.0 0.1	13.9 4.7 2.7 8.0 2.9	5.7 13.1 19.1 30.5 29.4	43.2 27.2 21.0 29.7 21.1	0.4 0.5 0.4 0.5	0.0 90.7 31.6 909.2 18.1	0.08 0.05 0.05 0.04	0.03 0.03 0.05 0.04 0.02	1.4 0.8 0.2 0.5 0.3	16.3 23.1 5.7 6.6 6.8	10.6 5.6 22.9 15.1 8.6
Spanish Cabbage	512A	Common, raw, trimmed	34.8	144.2	1.3	0.0	7.9	24.7	33.0	0.4	3.6	0.02	0.03	0.4	9.1	15.1

TABLE K.1. NUTRITIVE VALUE OF THE EDIBLE PORTION OF 100 g OF FOOD AS PURCHASED: FOOD SURVEY DATA (continued)

Ascor- bic Total Niacin Acid Folate	NE mg $\mu$	0.4 30.6 12.3 0.5 31.2 17.0	0.6 17.2 37.0	0.7 4.3 11.9 0.2 10.5 23.3 4.2 2.9 22.5	0.4 6.7 43.8	55.4 21.1 6.0	159.2	0.3 41.4 13.1 2.0 19.1 22.6	20.1	O. S	0.5 53.0 82.0	0.4 0.5 6.9	0.2 0.0 6.4	4.0 4.5 19.5
Ribo- flavin Ni	mg	0.03	0.09	0.04	0.05			0.00			0.14	0.01	0.07	0.00
Thia- mine	mg	2.3 0.04 0.0 0.03	7 0.07	.5 0.05 .7 0.02 .0 0.09	0.002			9 0.06			.2 0.08	.6 0.01	.8 0.01	12.0 0.06
Vita- min A	RE		7 37.7	2 14.5 0 23.7 7 0.0	5 202.0			0 68.5			6 539.2	3 23.6	7 105.8	
Phos- phorus Iron	mg mg	27.8 0.4 32.1 0.4	38.5 0.7	0.2 0.2 0.3 1.0 0.7	32.1 0.5			0.0 0.0	33.2 U.8 67.5 1.4		52.4 1.6	23.6 0.3	7.8 0.7	821 13
Cal- Ph	mg m	9.8 27 33.8 32	49.6 38	1.0 40.2 23.9 25.8 5.8 113.4	7.0 32			8.1 0			82.1 52	11.1 23	67.5 107.8	18.1 8.2
Carbo- hydrate c	50	3.1	5.8	8.0 3.2 4.3	4			10.5			4.7	38.5	50.0	0.4
Fat	0.0	0.0	0.1	0.3	0.0	0.2	0.2	0.0	0.1	0.5	0.3	11.2	19.9	7
Pro- tein	50	0.1	1.6	1.2	1.0			5.4			3.1	2.4	4.4	10.8
*	kJ	44.0	108.2	144.0 59.3 113.1	141.5	383.3 408.4 466.6	658.4	184.8	708.4	341.7	112.4	1 077.3	1 564.6	454.2
Food	cal	10.6	26.1	34.8 14.3 27.3	34.2	92.7	159.2	73.5	26.2	82.6	27.2	260.5	378.5	100 8
Specification		Raw, untrimmed Raw, without tops, good quality	Average, raw, green and yellow	Kaw, sweet, white and yellow, with husks Raw, not pared Raw, good quality	Average trimmed beets and butternut squash Average broccoli spears and Bruscels carronte	Whole, sweetened Sour, red, sweetened Cherries, sour, red, sweetened	Concentrate, unsweetened Orange and grapefruit, diluted		Snap, cut French-fried	Kernels cut off cob Average, chopped broccoli	and leaf spinach Average baked apple pie and baked cherry pie, piecrust	made with unenriched flour	without whipped-cream filling	Average, commercial plate
Source		630B 2352C	195	844A 942 1354A	2205 384C 483A 489A	2220 1852 674	1436 297 Health and	Welfare 1529	191	856 485	2179 1566 1571	5.47	548	1635
Commodity		Cauliflower Turnips	Beans	Corn Cucumbers Mushrooms	Other Root and Gourd Vegetables Other Leaf and Stalk	Frozen Foods Frozen Strawberries Frozen Raspberries Other Frozen Fruits	Frozen Orange Juice Other Frozen Juice	Frozen Peas	Frozen Green Beans Frozen Potatoes	Frozen Corn Other Frozen	Vegetables Frozen Fruit Pies	Frozen Cobec	TOZOII CANOS	Frozen Meat and

NUTRITIVE VALUE OF THE EDIBLE PORTION OF 100 g OF FOOD AS PURCHASED; FOOD SURVEY DATA (concluded) TABLE K.1.

	Course	Specification	Faerov		tein	Tat	hydrate	cium	phorus	Iron	4	mine	flavin	Niacin	Acid	Folate
Collinoaity	Source	penication	cal	R	0.0	50	8	mg	gm	mg	RE	mg	1	ZE	mg	и
Prepared and Partially Prepared Dishes	ired Dishes															
Macaroni Dishes	.382 Health	Macaroni and cheese														
,	and															
3	Welfare (1305)		197.0	814.4	8.2	11.0	20.1	182.3	9.92	6.0	130.5	130.5 0.09	0.20	0.4	0.0	4.00
ashed	1797	Dehydrated, mashed, flakes	366.0	1 516 9	,	90	846	35.7	1743	1 7	0	0.22	0.05	5 4	32.2	0.0
Potatoes	802	Made with commercial French		1 210.0	1	2.	2	,								
		dressing	95.7	395.7	1.2	7.3	7.6	42.3	26.2	0.4	11.0	0.03	0.03	0.3	29.2	24.2
Snack Foods	1809	Average, potato chips, corn snacks	471.7	1 950.2	9.9	21.3	63.9	23.1	140.7	1.8	51.4	51.4 0.31	0.10	3.1	8.0	24.0

<sup>a</sup> USDA, Composition of Foods . . . Raw, Processed, Prepared.

<sup>b</sup> Factors used for the nutrient values of condensed and evaporated milk are those of evaporated milk, as its consumption is approximately 15 times that of condensed milk.

<sup>c</sup> Added by manufacturer according to Food and Drug Regulations.

<sup>d</sup> Figures used for sour cream are those of light coffee or table cream (01-050).

e It is assumed that all bakery and cereal products are made with unenriched flour unless otherwise stated. When enriched, product contains added iron, thiamine, riboflavin, and niacin.

chicken from Health and Welfare Canada's Nutritive Value of Some Common Foods.

g The figure used is that for roaster chicken. h FAO, Food Composition Tables.

The value for instant coffee times 0.4.

Source: Nutrition Canada Survey Food-Nutrient Conversion File (based on Handbook No. 8, USDA, with additional Canadian foods), unless otherwise specified.

#### **APPENDIX L**

DETAILED COMPONENTS FOR THE COMMODITY GROUPS FOR FOOD DISAPPEARANCE AND FOOD SURVEY DATA

Tables L.1 and L.2

# TABLE L.1. DETAILED COMPONENTS FOR THE COMMODITY GROUPS FOR FOOD DISAPPEARANCE DATA

Cereals
Wheat Flour
Rye Flour

Oatmeal and Rolled Oats Pot and Pearl Barley Corn Flour and Meal Buckwheat Flour Rice

Breakfast Food
Sugar and Syrups

Sugar Maple Sugar Honey Other

Pulses and Nuts
Dry Beans

Baked Canned Beans

Dry Peas Peanuts Tree Nuts Fats and Oils Margarine Lard

Shortening and Shortening Oils

Salad Oils Butter

Other Fruits
Peaches, Frozen
Pears, Fresh
Spinach, Frozen
Asparagus, Fresh
Asparagus, Canned
Asparagus, Frozen

Beans, Green and Wax, Fresh Beans, Canned Beans, Frozen Lima Beans, Frozen Beets, Fresh

Beets, Fresh
Beets, Canned
Broccoli, Fresh
Broccoli, Frozen
Brussels Sprouts, Fresh
Brussels Sprouts, Frozen

Carrots, Fresh
Carrots, Canned
Carrots, Frozen
Cauliflower, Fresh
Cauliflower, Frozen
Celery, Fresh
Corn, Fresh
Corn, Canned
Corn, Frozen
Cucumbers, Fresh
Onions, Not Processed
Parsnips, Fresh

Peas, Fresh Peas, Canned Peas, Frozen Peppers, Fresh

Pumpkin and Squash, Canned

Radishes, Fresh Rutabagas, Fresh

Unspecified Fresh Vegetables<sup>a</sup> Unspecified Canned Vegetables Unspecified Frozen Vegetables<sup>a</sup>

Mushrooms Mushrooms, Fresh Mushrooms, Canned

Potatoes
Potatoes, White
Sweet Potatoes

Meat Pork Beef Veal

Mutton and lamb

Offal

Canned Meats

Eggs
Eggs
Poultry
Chicken
Fowl
Turkey
Duck
Goose
Fish

Fish, Shellfish, Fresh and Frozen Fish Cured (Smoked, Salted, Pickled)

Fish and Shellfish, Canned

Dairy Products
Cheddar Cheese
Process Cheese
Other Cheese
Cottage Cheese

Evaporated Whole Milk Condensed Whole Milk

Evaporated Partly Skimmed Milk

Powdered Whole Milk Powdered Skim Milk Powdered Buttermilk Powdered Whey Fluid Whole Milk

Beverages
Teaa
Coffee
Cocoa

<sup>&</sup>lt;sup>a</sup> Not included in study as representative nutrient values were not available.

# TABLE L.2: DETAILED COMPONENTS FOR THE COMMODITY GROUPS FOR SURVEY DATA

Dairy Products

Milk

Fresh Milk, Homogenized, Whole

Low Fat Milk, 2%, 1%

Skim Milk Chocolate Milk Unspecified Milk

Other Dairy Products

Buttermilk

Condensed and Evaporated Milk

Powdered Milk

Half and Half, Cereal Cream Cream-Fresh, Whipping, Table Ice Cream, Sherbet, Iced Milk Sour Cream, Chip Dips All Other Cream

Yoghurt Butter

Cheddar Cheese

Packaged Process Cheese, Spreads

Cottage Cheese Other Cheeses Unclassified Cheese Other Dairy Products

Eggs

Eggs, Grade A, Extra Large and Large

Other Grades and Sizes

Unclassified

Bakery Products

Bread

Cookies, Biscuits, Wafers

Crackers Pastries, Pies

Cakes, Chocolate Eclairs, Puddings Rolls and Buns, Muffins, Crumpets

Doughnuts

Other Bakery Products<sup>a</sup>

Cereal Products
Baby Cereal

Breakfast Cereal Prepared Breakfast Cereal To be Cooked

Flour

Mixes — Cake, Pastry

Other Mixes — Pancake, Pudding, etc. Pasta Products — Macaroni, Spaghetti

Rice

Other Cereals

Meat and Poultry

Beef

Loin Cuts

Round or Rump Cuts

Rib Cuts Shoulder Cuts Brisket, Flank Stewing Beef

Hamburger, Minced Beef

Other Beef Unspecified Beef Pork

Bacon

Ham Smoked, Cooked and Uncooked

Cottage Roll, Smoked Picnic

Loin, Fresh Ham, Fresh Shoulder, Fresh Sausage Other Pork Unspecified Pork

Other Meats

Veal

Lamb and Mutton

Liver — All Kinds (except chicken)

Bologna Weiners

Other Cooked Meats

Canned Meats

Other — Heart, Game, Kidney, etc.

Packaged Sliced Meats

Poultry

Chicken, Fresh, Frozen, Cut up Turkey, Fresh, Frozen, Cut up

Other Poultry

Fish

Cod, Fresh, Frozen, Smoked Halibut, Fresh, Frozen Salmon, Fresh, Frozen, Smoked

Canned Salmon
Canned Tuna

Other Canned Fish and Seafood

Other Fish and Seafood Unspecified Fish

Fats and Oils
Margarine

Vegetable Shortening

Butter Spread, Low-Fat Margarine Spread

Lard

Oil-Corn, Peanut, Olive, etc. Salad Dressing, and Mayonnaise

Peanut Butter Other Fats and Oils

Beverages Coffee, Regular Coffee, Instant Tea Bags<sup>a</sup>

Tea, Instant, Iced Tea Mix

Other Tea<sup>a</sup> Unspecified Tea<sup>a</sup> Soft Drinks

Other Non-Alcoholic Drinks

- continued -

# TABLE L.2: DETAILED COMPONENTS FOR THE COMMODITY GROUPS FOR SURVEY DATA (concluded)

Miscellaneous Groceries

Candy, Gum, Chocolate, Marshmallows

Sugar, All Kinds

Canned Puddings, Food Powders Molasses, Honey, Syrup Preserves, Jams, Marmalade

Baking Supplies<sup>a</sup> Salt, Spices, Mustard

Pickles, Relishes, Olives, Vinegar Catsup, Chili Sauce, Gravy Mixes Soup, Canned, Ready to Serve

Soup, Dehydrated

Baby Food, Canned and Bottled

Fruit Drink Crystals

Non-Dairy Substitutes, Sundae Sauce

Sandwich Spreads

Canned and Dried Fruits

Canned Peaches
Canned Pears
Canned Pineapple
Canned Cherries
Canned Plums

Canned Fruit Cocktail

Other Canned Fruits, Pie Fillings Unspecified Canned Fruits Canned Apple Juice Canned Orange Juice

Other Canned or Bottle Fruit Juice Unspecified Canned Fruit Juice

Raisins

Other Dried and Preserved Fruits

Canned and Dried Vegetables

Canned Peas

Canned Corn, Kernel or Creamed

Canned Baked Beans
Other Canned Beans
Canned Tomatoes
Other Canned Vegetables
Unspecified Canned Vegetables

Canned Tomato Juice Other Vegetable Juices Dried Vegetables Unspecified Beans

Fresh Fruits

Oranges Bananas Apples Grapefruits Strawberries

Strawberries Raspberries Grapes Peaches Melons Cherries

Plums Pears

Other Fresh Fruits Unspecified Fresh Fruits<sup>a</sup> Fresh Vegetables

Potatoes Tomatoes Lettuce Carrots Celery

Onions, Regular and Spanish

Cabbage Cauliflower Turnips

Beans, Green and Yellow

Corn Cucumbers Mushrooms

Other Root and Gourd Vegetables Other Leaf and Stalk Vegetables Unspecified Fresh Vegetables<sup>a</sup>

Frozen Foods
Frozen Strawberries
Frozen Raspberries
Other Frozen Fruits
Frozen Orange Juice

Other Frozen Juices Frozen Peas Frozen Green Beans Frozen Potatoes Frozen Corn

Other Frozen Vegetables
Frozen Fruit Pies
Frozen Cakes

Other Frozen Desserts and Specialties<sup>a</sup>

Frozen Fish Dinnersa

Frozen Meat and Poultry Dinners Frozen Chinese and Italian Foods<sup>a</sup>

Other Frozen Foods<sup>a</sup>

Prepared and Partially Prepared Dishes

Macaroni Dinners, etc. Meat and Poultry Dinners<sup>a</sup> Instant Mashed Potatoes Chinese Dinners<sup>a</sup> Salads, Coleslaw Snack Foods

Carried out of Restaurants and Storesa

Othera

Total Food Prepared at Home Board, by Family Members<sup>b</sup>

Food and Beverages in Eating Places

Breakfasts Lunches Dinners Snacks Soft Drinks

Other Non-Alcoholic Beverages

Chocolate Bars, Candy

<sup>&</sup>lt;sup>a</sup> Not included in study as representative nutrient values were not available.

<sup>&</sup>lt;sup>b</sup> Not included as only food prepared at home was considered.

# APPENDIX M

CONVERSION TABLE FOR FOOD SURVEY DATA

Table M.1

TABLE M.1. CONVERSION TABLE FOR FOOD SURVEY DATA

Item	Refer- ences	Unit in Data	100 g Equiv- alent	Item	Refer- ences	Unit in Data	100 g Equiv- alent
100 — fresh milk, homogenized	2	qt.	0.086	504 — other tea		oz.	0.272
101 — low fat milk	2	41.	0.085	505 — unspecified tea		11	11
102 — skim milk	2	**	0.085	506 — soft drinks		11	11
103 — chocolate milk	2	**	0.084	507 — other non-alcoholic			
104 — unspecified milk	2	11	0.085	drinks		**	11
						**	**
110 — buttermilk	2	**	0.085	510 — candy		**	**
111 — condensed and				512 — canned puddings		**	**
evaporated milk		OZ.	0.318	513 — molasses, honey		11	**
113 — half and half		pint	0.172	514 — preserves		**	**
114 — cream		**	0.174	515 — baking supplies		11	**
115 — ice cream		9.0	0.315	516 — salt, spices		11	11
116 — sour cream		9.0	0.181	517 — pickles		**	**
all other cream		OZ.	0.272	518 — catsup			
117 — yoghurt		11	**	519 — canned soup		!!	- 17
120 — processed cheese		7.0	19	520 — dehydrated soup		*11	**
122 — other cheese		11	11	521 — baby food		***	11
123 — unclassified cheese		11	**	522 — fruit drink		**	11
124 — other dairy products		11	**	523 — non-dairy substitutes		**	8.6
•				525 — sandwich spread		**	11
140 — eggs, A large	3	doz.	0.147	(00		11	11
141 — other grades		11	0.167	600 — canned peaches		11	"
142 — unclassified eggs		11	0.157	601 — canned pears			
200 — bread		OZ.	0.272	602 — canned pineapple		#	11
201 — cookies		**	11	603 — canned cherries		!!	- 11
202 — crackers		11	11	604 — canned plums		**	**
203 — pastries		11	11	605 — canned fruit cocktail		**	***
204 — cakes		11	Ħ	606 — other canned fruit		**	**
205 — rolls and buns		11	11	607 — unspecified canned fruit		**	f†
206 — doughnuts	2	doz.	0.259	608 — canned apple juice	1	81	0.318
207 — other bakery products		07.	0.272	609 — canned orange juice	1	**	**
220 — baby cereal		**	11	610 — other fruit juice	1	11	11
221 — prepared cereal		**	FT	611 — unspecified fruit juice	1	11	11
222 - cereal to be cooked		11	11	612 — raisins		**	tt
224 — mixes - cake		11	**	613 — other dried fruit		9.9	11
225 — other mixes		11	**	620 — canned peas		11	0.272
227 — rice		11	**	621 — canned corn		**	77
228 — other cereal		11	11	622 — canned baked beans		**	11
220				623 — other canned beans		99	11
				624 — canned tomatoes		**	**
383 — canned salmon		**	11	625 — other canned vegetables		**	***
384 — canned tuna		**	11	626 — unspecified canned			
385 — other canned fish		11	**	vegetables		11	**
386 — other fish		*1	***	627 — canned tomato juice	1	**	0.318
				628 — other vegetable juices	1	Ħ	11
402 — butter spread		**	H	629 — dried vegetables		**	0.272
404 — oil		**	11	630 — unspecified beans		11	11
405 — salad dressing		11	11	700 — oranges	2	doz.	0.046
406 — peanut butter		**	**	703 — grapefruit	2	each	0.208
400 — peanut butter 407 — other fats and oils		11	**	704 — strawberries	1	pint	0.350
-07 - Other rats and ons				704 — strawberries 705 — raspberries	1	"	11
501 — coffee, instant		11	**	707 — peaches	1		
502 — tea bags		**	11		(average		
503 — tea, instant		**	11		6  qt =		0.55
					4.08 kg)	**	0.29

TABLE M.1. CONVERSION TABLE FOR FOOD SURVEY DATA (concluded)

Item	Refer- ences	Unit in Data	100 g Equiv- alent	ltem	Refer- ences	Unit in Data	100 g Equiv- alent
708 — melons	2			807 — frozen potatoes		oz.	0.272
	(canta-			808 — frozen corn		77	11
	loupe)	each	0.130	809 — other frozen vegetables		17	11
722 — lettuce		11	0.272	810 — frozen fruit pies		81	11
724 — celery		**	**	811 — frozen cakes		11	11
727 — cauliflower		11	**	812 — other frozen desserts		17	11
730 — corn	2	OZ.	0.060	813 — frozen fish dinners		77	11
731 — cucumbers		oz.	0.272	814 — frozen meat dinners		77	77
734 — other leaf and stalk				815 — frozen Chinese food		11	11
vegetables 735 — unspecified fresh		11	11	816 — other frozen foods		11	11
vegetables		**	**	900 — macaroni dinners		81	11
800 — frozen strawberries		**	11	901 — meat and poultry dinners		97	#1
0 0 0		11	11	902 — instant potatoes		11	11
801 — frozen raspberries 802 — other frozen fruits		11	11	903 — Chinese dinners		11	81
	3	11	0.227	904 — salads, coleslaw		**	81
803 — frozen orange juice	3		0.227	905 — snack foods		97	91
804 — other frozen juice	3	**	0.272				
805 — frozen peas 806 — frozen green beans		11	11	907 — other		11	**

#### References

Agriculture Canada. Weights and Conversion Factors for Canadian Agricultural Products, Publication No. 1155, September 1962.

Health and Welfare Canada. Nutrient Values of Some Common Foods (Ottawa, 1974).

U.S. Department of Agriculture. Composition of Foods... Raw Processed, Prepared, Agriculture Handbook No. 8, revised. (Washington, D.C. 1963.)

# APPENDIX N

CANADA'S FOOD GUIDE AND SOURCES OF NUTRIENTS

Table N.1 and N.2

## TABLE N.1. CANADA'S FOOD GUIDEa

Milk and Milk Products

Children up to eleven years

Adolescents

Pregnant and Nursing Women

Adults

2-3 servings per day
3-4 servings per day
2 servings per day
2 servings per day

Skim, two percent, whole, buttermilk, reconstituted dry or evaporated milk may be used as a beverage or as the main ingredient in other foods. Cheese may also be chosen, such that:

1 serving = 250 ml (1 cup) milk, yoghurt or cottage cheese OR = 45 g (1½ ounces) Cheddar or process cheese

In addition, a supplement of vitamin D is recommended when milk is consumed which does not contain added vitamin D.

#### Meat and Alternates

Recommend 2 servings per day, where

1 serving = 60-90 g (2-3 ounces) cooked lean meat, poultry, liver or fish, OR = 60 mL (4 tablespoons) peanut butter, OR = 250 mL (1 cup) cooked dried peas, beans or lentils, OR = 80-250 mL (1/3 - 1 cup) nuts or seeds, OR = 60 g (2 ounces) Cheddar, process or cottage cheese, OR = 2 eggs

#### Bread and Cereals

Recommend 3-5 servings per day (whole grain or enriched). Whole grain products are recommended, where

1 serving = 1 slice bread, OR = 125-250 mL (½ - 1 cup) cooked or ready-to-eat cereal, OR = 1 roll or muffin, OR = 125-200 mL (½ - ¾ cup) cooked rice, macaroni or spaghetti.

#### Fruits and Vegetables

Recommend 4-5 servings per day, including at least two servings of vegetables. Choose a variety of both vegetables and fruits — cooked, raw or their juices. Include yellow or green or green leafy vegetables, such that:

1 serving = 125 mL (½ cup) vegetables or fruits, OR
= 125 mL (½ cup) juice, OR
= 1 medium potato, carrot, tomato, peach, apple, orange or banana.

Source: Health and Welfare Canada. Canada's Food Guide. Ottawa: Supply and Services, 1977.

<sup>&</sup>lt;sup>a</sup> Energy needs vary with age, sex and activity. Foods selected according to the guide can supply 1000–1400 calories. For additional energy, increase the number and size of servings from the various food groups or add other foods.

## TABLE N.2. SOURCES OF FOOD ENERGY AND NUTRIENTS

Nutrients	Sources				
Food Energy	Sugar, lard, butter, margarine, whole milk, ice cream, bakery products, potatoes, meat, breakfast cereals				
Protein	Meat, poultry, fish, liver, legumes, whole milk, cheese, eggs, bread, potatoes, breakfast cereals				
Fat	Lard, margarine, vegetables oils, nuts, peanut butter, milk, cream, cheese, eggs, fatty meats, fish and poultry, whole-grain cereals, processed foods made with fats and oils				
Carbohydrates	Sugars and syrups, cereal grains, legumes, dried fruit, pasta products, bread, potatoes, bananas				
Iron	Eggs, lean meats, legumes, whole grains, green leafy vegetables				
Calcium	Milk, cheese, dark green vegetables, dried legumes				
Phosphorus	Milk, cheese, meat, poultry, grains				
Vitamin A	Provitamin A (beta-carotene) widely distributed in green vegetables. Retinol present in milk, butter, cheese, fortified margarine				
Vitamin B-l (Thiamine)	Pork, organ meats, whole grains, legumes				
Vitamin B-2 (Riboflavin)	Widely distributed in foods				
Niacin	Liver, lean meats, grains, legumes (can be formed from tryptophan).				
Folacin	(Folate, Folic Acid)				
Ascorbic Acid (Vitamin C)	Citrus fruits, tomatoes, green peppers, salad greens				

Sources: Nevin S. Scrimshaw and Veron R. Young, "The Requirements of Human Nutrition," Scientific American (September 1976) and E.D. Wilson, K.H. Fisher, and M.E. Fuqua, Principles of Nutrition, 3rd edition (New York: Wiley, 1975).



